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Ser Leu Thr Gly Thr Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu			
45	50	55	
cgc act ctc tcc ctc caa gac aat tcc ctc acc ggc acc ctc cct tct			303
Arg Thr Leu Ser Leu Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser			
60	65	70	75
ctc tcc aac ctt tct ttc ctc caa acc gtc tac tta aac cgc aac aac			351
Leu Ser Asn Leu Ser Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn			
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ttc tcc tcc gtg tcc ccc acc gct ttc gcc tcc cta acc tcc ctc caa			399
Phe Ser Ser Val Ser Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln			
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acc ctc aac ctc ggc tcc aac cct gct ctc caa aac ccc tgg tcc ttc ccc			447
Thr Leu Ser Leu Gly Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro			
110	115	120	
acc gac ctc act tcc tcc tct aac cta atc gac ctc gac ctc gcc acc			495
Thr Asp Leu Thr Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr			
125	130	135	
gta tcc ctc acc ggt ccc ttg ccg gac att ttc gac aaa ttc cct tcc			543
Val Ser Leu Thr Gly Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser			
140	145	150	155
ctt caa cac ctt cgc ctc tct tac aac aac ctc acc ggc aat tta ccc			591
Leu Gln His Leu Arg Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro			
160	165	170	
tcc tct ttc tcc gcc gac aat ctc gaa acg ctc tgg ctc aac aac			639
Ser Ser Phe Ser Ala Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn			
175	180	185	
cag gcc gcc ggc ttg tcc ggt acc ctc ctc gtc ctc tcc aac atg tct			687
Gln Ala Ala Gly Leu Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser			
190	195	200	
gca tta aac cag tcc tgg ctc aat aag aac cag ttc acc ggt tcc ata			735
Ala Leu Asn Gln Ser Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile			
205	210	215	
ccg gat tta tgc caa tgc acg gct ttg tct gag ttg cag ctc agg gat			783
Pro Asp Leu Ser Gln Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp			
220	225	230	235
aac cag tta act ggt gtg gtt ccc gct tca ttg aca agt ctt cct agt			831
Asn Gln Leu Thr Gly Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser			
240	245	250	

ttg aag aaa gtt tct ctg gat aat aat gag ctt cag ggg cct gtg ccc Leu Lys Lys Val Ser Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro 255 260 265	879
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Lys Gly Gly Phe Lys Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly			
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Val Thr Asn Asn Phe Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe			
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Lys Arg Met Glu Ser Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe			
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Glu His Gly Tyr Ala Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala			
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Ser Phe Ile His Arg Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp			
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Thr Leu Ser Leu Gly Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro				
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Thr Asp Leu Thr Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr				
125	130	135		
gta tcc ctc acc ggt ccc ttg ccg gac att ttc gac aaa ttc cct tcc				543
Val Ser Leu Thr Gly Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser				
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Leu Gln His Leu Arg Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro				
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Ser Ser Phe Ser Ala Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn				
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Gln Ala Ala Gly Leu Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser				
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Asn Gln Leu Thr Gly Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser				
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Gln Ile Ala Glu Ala Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp				
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          Met Ser Asn Phe Leu Lys Ser Leu Thr Pro Pro
          1           5           10

ccc tcg ggc tgg tct gaa aca acc cca ttc tgc caa tgg aag ggt atc      159
Pro Ser Gly Trp Ser Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile
          15           20           25

caa tgc gat tca tcc agc cac gtg acc agc ata agc ctc gct tcg cag      207
Gln Cys Asp Ser Ser His Val Thr Ser Ile Ser Ala Ser Gln
          30           35           40

tcc ctc acc gga aca ctc ccc tgg gat ctc aat tcc ctc tct caa ctc      255
Ser Leu Thr Gly Thr Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu
          45           50           55

cgc act ctc tcc ctc caa gac aat tcc ctc acc ggc acc ctc cct tct      303
Arg Thr Leu Ser Leu Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser
          60           65           70           75

ctc tcc aac ctt tct ttc ctc caa acc gtc tac tta aac cgcc aac aac      351
Leu Ser Asn Leu Ser Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn
          80           85           90

ttc tcc tcc gtg tcc ccc acc gct ttc gcc tcc cta acc tcc ctc caa      399
Phe Ser Ser Val Ser Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln
          95           100          105

acc ctc agc ctc ggc tcc aac cct gct ctc caa ccc tgg tcc ttc ccc      447
Thr Leu Ser Leu Gly Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro
          110          115          120

acc gac ctc act tcc tcc tct aac cta atc gac ctc gac ctc gcc acc      495
Thr Asp Leu Thr Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr
          125          130          135

gta tcc ctc acc ggt ccc ttg ccg gac att ttc gac aaa ttc cct tcc      543
Val Ser Leu Thr Gly Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser
          140          145          150          155

ctt caa cac ctt cgc ctc tct tac aac aac ctc acc ggc aat tta ccc      591
Leu Gln His Leu Arg Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro
          160          165          170

tcc tct ttc tcc gcc gcc aac aat ctc gaa acg ctc tgg ctc aac aac      639
Ser Ser Phe Ser Ala Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn
          175          180          185

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gca tta aac cag tcc tgg ctc aat aag aac cag ttc acc ggt tcc ata Ala Leu Asn Gln Ser Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile 205 210 215	735
ccg gat tta tcg caa tgc acg gct ttg tct gac ttg cag ctc agg gat Pro Asp Leu Ser Gln Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp 220 225 230 235	783
aac cag tta act ggt gtg gtt ccc gct tca ttg aca agt ctt cct agt Asn Gln Leu Thr Gly Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser 240 245 250	831
ttg aag aaa gtt tct ctg gat aat aat gag ctt cag ggg cct gtg ccc Leu Lys Lys Val Ser Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro 255 260 265	879
gtg ttt ggg aaa ggt gtg aat gtt act ctc gat ggg att aat agt ttt Val Phe Gly Lys Gly Val Asn Val Thr Leu Asp Gly Ile Asn Ser Phe 270 275 280	927
tgt ctt gat act cct ggg aat tgt gat ccc agg gtg atg gtt ttg ctg Cys Leu Asp Thr Pro Gly Asn Cys Asp Pro Arg Val Met Val Leu Leu 285 290 295	975
cag att gcc gag gca ttc ggg tat cca att cgg ttg gca gag tcg tgg Gln Ile Ala Glu Ala Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp 300 305 310 315	1023
aag ggg aat gat ccg tgt gat ggt tgg aac tat gtt gtg tgt gct gcc Lys Gly Asn Asp Pro Cys Asp Gly Trp Asn Tyr Val Val Cys Ala Ala 320 325 330	1071
gga aag att att act gtc aat ttc gag aaa cag ggt ttg cag ggt acc Gly Lys Ile Ile Thr Val Asn Phe Glu Lys Gln Gly Leu Gln Gly Thr 335 340 345	1119
atc tcc cct gca ttt gcc aat ttg act gac ttg agg act ttg ttt ctc Ile Ser Pro Ala Phe Ala Asn Leu Thr Asp Leu Arg Thr Leu Phe Leu 350 355 360	1167
aat ggc aat aat ttg atc ggt tct ata cct gat agt ttg atc act ttg Asn Gly Asn Asn Leu Ile Gly Ser Ile Pro Asp Ser Leu Ile Thr Leu 365 370 375	1215
cct cag ctt cag act ctt gat gtg tct gac aac aac ctc tct gga ttg Pro Gln Leu Gln Thr Leu Asp Val Ser Asp Asn Asn Leu Ser Gly Leu 380 385 390 395	1263
gtt cct aag ttc cca cca aag gtg aag ttg gtg act gcg gga aat gct Val Pro Lys Phe Pro Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala 400 405 410	1311
ttg ctt ggg aaa ccc ctt agt cct gga ggt gga cca agt gga act act	1359

Leu Leu Gly Lys Pro Leu Ser Pro Gly Gly Gly Pro Ser Gly Thr Thr			
415	420	425	
cct tct ggg tct tcg acc ggt gga agt ggt ggt gaa tcc tca aag ggt			1407
Pro Ser Gly Ser Ser Thr Gly Gly Ser Gly Glu Ser Ser Lys Gly			
430	435	440	
aat tct tcg gtg tcg cca ggt tgg att gct ggt ata gtt gtt att gtg			1455
Asn Ser Ser Val Ser Pro Gly Trp Ile Ala Gly Ile Val Val Ile Val			
445	450	455	
ttg ttt ttt att gca gtg gtg ttg ttt gtg tct tgg aag tgt ttt gtc			1503
Leu Phe Phe Ile Ala Val Val Leu Phe Val Ser Trp Lys Cys Phe Val			
460	465	470	475
aac aag ctg cag ggg aag ttc agt agg gtt aaa ggt cat gaa aat ggg			1551
Asn Lys Leu Gln Gly Lys Phe Ser Arg Val Lys Gly His Glu Asn Gly			
480	485	490	
aaa gga ggc ttt aaa ctt gat gct gtc cat gtt tct aat gga tat ggt			1599
Lys Gly Gly Phe Lys Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly			
495	500	505	
ggt gtt cca gtt gag ttg caa agc cag agc agt ggt gat cgc agt gac			1647
Gly Val Pro Val Glu Leu Gln Ser Gln Ser Ser Gly Asp Arg Ser Asp			
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ctt cat gct tta gat ggt cca aca ttt tct atc caa gtt ctt cga caa			1695
Leu His Ala Leu Asp Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln			
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Val Thr Asn Asn Phe Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe			
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gga gta gtt tat aag ggg gtg ttg cat gat gga aca aaa att gct gtt			1791
Gly Val Val Tyr Lys Gly Val Leu His Asp Gly Thr Lys Ile Ala Val			
560	565	570	
aag agg atg gaa tct gtt gca atg ggg aac aaa ggt cag aaa gag ttc			1839
Lys Arg Met Glu Ser Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe			
575	580	585	
gaa gca gag att gca ctt ctt agt aaa gtt agg cat aga cat ttg gtt			1887
Glu Ala Glu Ile Ala Leu Leu Ser Lys Val Arg His Arg His Leu Val			
590	595	600	
gct ctt cta ggg tat tgc atc aat ggc aat gaa agg ctt ttg gtg tat			1935
Ala Leu Leu Gly Tyr Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr			
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gag tat atg cct caa tta aca cag cac ctg ttt gag tgg cag			1983
Glu Tyr Met Pro Gln Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln			
620	625	630	635
gag cat ggg tat gct cct ttg act tgg aag caa agg gta gta ata gct			2031
Glu His Gly Tyr Ala Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala			
640	645	650	

ttg gat gta gcg cgg ggg gtg gaa tac ttg cac agt tta gct cag caa Leu Asp Val Ala Arg Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln 655	660	665	2079
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gac atg aga gca aag gtt gct gat ttt ggg ttg gtt aaa aat gca cca Asp Met Arg Ala Lys Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro 685	690	695	2175
gtt ggg aag tat tct gtt gag aca cgg ttg gct gga aca ttt gga tat Asp Gly Lys Tyr Ser Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr 700	705	710	715
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caatttgtgcc ttaatatttga agttcatattt ttatatgctc gtatgggtg gttatagctg ttgggttatta ctccaatatac atgctcggt gttcagaaaaa tttaagttagt tcaccagagt aatcgctcac atacaaaaaa aaagttagaaa gagttaaagg gaaaataatt gataactcaat tcctagatac atggctactt caaaattctt tggtggctatt tctttgcaat gttatatttt gctctttca cgtgttttg tgagttgggt ggggggttgc ctgcatagtt cttgggtgggt gatgcctcaa aagatatgtc gagccatttt tagacagttt accagagttt gactctcaat tatcccttacatgtgtatgtc atactctggt tgcattaaat ctttgatttc tgatatatgt catgggctta ggtggtagtt ctcttcgcacta actaaatactt gttgtggaaat ttatcattt atccccatttc cttgttggat cggtgcattt aacatcttt tgttaaaact gttatatttga tcgggtttgt ttttatccat tttagatcaa gacttttgc agcataaaaac ttccctaaaaat gttgcatttgc atgtgtttagt atggcatttg attagtgcta gtttattttgt ttgattatata ttaatgttac tctgtttctt accag ct act gga aga gtg aca acc aaa gtg Ala Thr Gly Arg Val Thr Thr Lys Val 725	730		2332
gat gtt tat gca ttt gga gta gtt ctg atg gaa ctt atc acc ggt aga Asp Val Tyr Ala Phe Gly Val Val Leu Met Glu Leu Ile Thr Gly Arg 735	740	745	2392
aag gca ttg gat act gtg cca gat gaa agg tct cac ttg gtg aca Lys Ala Leu Asp Asp Thr Val Pro Asp Glu Arg Ser His Leu Val Thr 750	755	760	2452
tgg ttc cgt agg gta cta att aac aag gaa aac att cca aag gca att Trp Phe Arg Arg Val Leu Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile 765	770	775	2512
			2572
			2632
			2692
			2752
			2812
			2872
			2932
			2983
			3031
			3079
			3127

gat caa att ctc aat cca gat gag gaa acc atg gga agc ata tat aca Asp Gln Ile Leu Asn Pro Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr 780 785 790	3175
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tgg aaa cct act agc cat gat gaa gaa gag gaa gac ggc tct ggc ggt Trp Lys Pro Thr Ser His Asp Glu Glu Glu Asp Gly Ser Gly Gly 830 835 840	3319
gac ctt cat atg agc ctt cct caa gct cta cga agg tgg caa gcc aac Asp Leu His Met Ser Leu Pro Gln Ala Leu Arg Arg Trp Gln Ala Asn 845 850 855	3367
gaa ggc act tcc tca ata ttt aat gac att tcc atc tca caa acc caa Glu Gly Thr Ser Ser Ile Phe Asn Asp Ile Ser Ile Ser Gln Thr Gln 860 865 870	3415
tca agc atc tcc tct aaa cct gca ggg ttt gca gac tcc ttt gat tca Ser Ser Ile Ser Ser Lys Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser 875 880 885 890	3463
atg gat tgc cgt taa cc Met Asp Cys Arg	3480
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caa tgc gat tca tcc agc cac gtg acc agc ata agc ctc gct tgc cag Gln Cys Asp Ser Ser His Val Thr Ser Ile Ser Leu Ala Ser Gln	207

	30	35	40	
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cgc act ctc tcc ctc caa gac aat tcc ctc acc ggc acc ctc cct tct Arg Thr Leu Ser Leu Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser	60	65	70	303
ctc tcc aac ctt ttc ctc caa acc gtc tac ttc aac cgc aac aac Leu Ser Asn Leu Ser Phe Leu Gln Thr Val Tyr Phe Asn Arg Asn Asn	80	85	90	351
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acc ctc agc ctc ggc tcc aac cct gct ctc caa ccc tgg tcc ttc ccc Thr Leu Ser Leu Gly Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro	110	115	120	447
acc gac ctc act tcc tcc tct aac cta atc gac ctc gac ctc gcc acc Thr Asp Leu Thr Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr	125	130	135	495
gta tcc ctc acc ggt ccc ttg ccg gac att ttc gac aaa ttc cct tcc Val Ser Leu Thr Gly Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser	140	145	150	543
ctt caa cac ctt ccg ctc tct tac aac aac ctc acc ggc aat tta ccc Leu Gln His Leu Arg Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro	160	165	170	591
tcc tct ttc tcc gcc aac aat ctc gaa acg ctc tgg ctc aac aac Ser Ser Phe Ser Ala Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn	175	180	185	639
cag gcc gcc ggc ttg tcc ggt acc ctc ctc gtc ctc tcc aac atg tct Gln Ala Ala Gly Leu Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser	190	195	200	687
gca tta aac cag tcc tgg ctc aat aag aac cag ttc acc ggt tcc att Ala Leu Asn Gln Ser Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile	205	210	215	735
ccg gat tta tcg caa tgc acg gct ttg tct gac ttg cag ctc agg gat Pro Asp Leu Ser Gln Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp	220	225	230	783
aac cag tta act ggt gtg gtt ccc gct tca ttg aca agt ctt cct agt Asn Gln Leu Thr Gly Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser	240	245	250	831
ttg aag aaa gtt tct ctg gat aat aat gag ctt cag ggg cct gtg ccc Leu Lys Lys Val Ser Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro	255	260	265	879

gtg ttt ggg aaa ggt gtg aat gtt act ctc gat ggg att aat agt att		927
Val Phe Gly Lys Gly Val Asn Val Thr Leu Asp Gly Ile Asn Ser Phe		
270	275	280
tgt ctt gat act cct ggg aat tgt gat ccc agg gtg atg gtt ttg ctg		975
Cys Leu Asp Thr Pro Gly Asn Cys Asp Pro Arg Val Met Val Leu Leu		
285	290	295
cag att gcc gag gca ttc ggg tat cca att cgg ttg gca gag tcg tgg		1023
Gln Ile Ala Glu Ala Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp		
300	305	310
aag ggg aat gat ccg tgt gat ggt tgg aac tat gtt gtg tgt gct gcc		1071
Lys Gly Asn Asp Pro Cys Asp Gly Trp Asn Tyr Val Val Cys Ala Ala		
320	325	330
gga aag att att act gtc aat ttc gag aaa cag ggt ttg cag ggt acc		1119
Gly Lys Ile Ile Thr Val Asn Phe Glu Lys Gln Gly Leu Gln Gly Thr		
335	340	345
atc tcc cct gca ttt gcc aat ttg act gac ttg agg act ttg ttt ctc		1167
Ile Ser Pro Ala Phe Ala Asn Leu Thr Asp Leu Arg Thr Leu Phe Leu		
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Asn Gly Asn Asn Leu Ile Gly Ser Ile Pro Asp Ser Leu Ile Thr Leu		
365	370	375
cct cag ctt cag act ctt gat gtg tct gac aac aac ctc tct gga ttg		1263
Pro Gln Leu Gln Thr Leu Asp Val Ser Asp Asn Asn Leu Ser Gly Leu		
380	385	390
gtt cct aag ttc cca cca aag gtg aag ttg gtg act gcg gga aat gct		1311
Val Pro Lys Phe Pro Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala		
400	405	410
ttg ctt ggg aaa ccc ctt agt cct gga ggt gga cca agt gga act act		1359
Leu Leu Gly Pro Leu Ser Pro Gly Gly Pro Ser Gly Thr Thr		
415	420	425
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Pro Ser Gly Ser Ser Thr Gly Gly Ser Gly Gly Glu Ser Ser Lys Gly		
430	435	440
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Asn Ser Ser Val Ser Pro Gly Trp Ile Ala Gly Ile Val Val Ile Val		
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ttg ttt ttt att gca gtc gtg ttg ttt gtg tct ttg aag tgg ttt gtc		1503
Leu Phe Ile Ala Val Val Leu Phe Val Ser Trp Lys Cys Phe Val		
460	465	470
aac aag ctg cag ggg aag ttc agt agg gtt aaa ggt cat gaa aat ggg		1551
Asn Lys Leu Gln Gly Lys Phe Ser Arg Val Lys Gly His Glu Asn Gly		
480	485	490
aaa gga ggc ttt aaa ctt gat gct gtc cat gtt tct aat gga tat ggt		1599
Lys Gly Gly Phe Lys Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly		

495	500	505	
ggt gtt cca gtt gag ttg caa agc cag agc agt ggt gat cgc agt gac Gly Val Pro Val Glu Leu Gln Ser Gln Ser Ser Gly Asp Arg Ser Asp	510	515	1647
		520	
ctt cat gct tta gat ggt cca aca ttt tct atc caa gtt ctt cga caa Leu His Ala Leu Asp Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln	525	530	1695
		535	
gtg acg aat aat ttc agc gag gag aac att tta ggc agg gga ggg ttt Val Thr Asn Asn Phe Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe	540	545	1743
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gga gta gtt tat aag ggg gtg ttg cat gat gga aca aaa att gct gtt Gly Val Val Tyr Lys Gly Val Leu His Asp Gly Thr Lys Ile Ala Val	560	565	1791
		570	
aag agg atg gaa tct gtt gca atg ggg aac aaa ggt cag aaa gag ttc Lys Arg Met Glu Ser Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe	575	580	1839
		585	
gaa gca gag att gca ctt ctt agt aaa gtt agg cat aga cat ttg gtt Glu Ala Glu Ile Ala Leu Leu Ser Lys Val Arg His Arg His Leu Val	590	595	1887
		600	
gct ctt cta ggg tat tgc atc aat ggc aat gaa agg ctt ttg gtg tat Ala Leu Leu Gly Tyr Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr	605	610	1935
		615	
gag tat atg cct caa ggt aca tta aca cag cac ctg ttt gag tgg cag Glu Tyr Met Pro Gln Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln	620	625	1983
		630	
gag cat ggg tat gct cct ttg act tgg aag caa agg gta gta ata gct Glu His Gly Tyr Ala Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala	640	645	2031
		650	
ttg gat gta gcg cgg ggg gtg gaa tac ttg cac agt tta gct cag caa Leu Asp Val Ala Arg Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln	655	660	2079
		665	
agc ttc att cat aga gac tta aaa ccc tca aac ata cta cta ggc gat Ser Phe Ile His Arg Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp	670	675	2127
		680	
gac atg aga gca aag gtt gct gat ttt ggg ttg gtt aaa aat gca cca Asp Met Arg Ala Lys Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro	685	690	2175
		695	
gat ggg aag tat tct gtt gag aca cgg ttg gct gga aca ttt gga tat Asp Gly Lys Tyr Ser Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr	700	705	2223
		710	
715			
ctt gca cct gag tat gca g gtacagaaaag cctttgattt tagttttgta Leu Ala Pro Glu Tyr Ala	720		2272

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tatccttac	gatgtgatga	atactcttgt	tgcatataat	ctttgattgc	tgtatattgt	2692
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			Ala Thr Gly Arg	Val Thr Thr Lys	Val Val	
			725	730		
gat gtt tat gca ttt gga gta gtt ctg atg gaa ctt atc acc ggt aga						3031
Asp Val Tyr Ala Phe Gly Val Val Leu Met Gly Val Leu Ile Thr Gly Arg						
735	740	745				
aag gca ttg gat gat act gtg cca gat gaa agg tct cac ttg gtg aca						3079
Lys Ala Leu Asp Asp Thr Val Pro Asp Glu Arg Ser His Leu Val Thr						
750	755	760				
tgg ttc cgt agg gta cta att aac aag gaa aac att cca aag gca att						3127
Trp Phe Arg Arg Val Leu Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile						
765	770	775				
gat caa att ctc aat cca gat gag gaa acc atg gga agc ata tat aca						3175
Asp Gln Ile Leu Asn Pro Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr						
780	785	790				
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Val Ala Glu Leu Ala Gly His Cys Thr Ala Arg Glu Pro Tyr Gln Arg						
795	800	805				
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Pro Asp Met Gly His Ala Val Asn Val Leu Val Pro Leu Val Glu Gln						
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<210> 61  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_70509\_14

<400> 61

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<210> 62  
<211> 139  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_50537\_17

<400> 62

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taatttggGA tgctctgtCT 139

<210> 63

<211> 139  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_231556\_17

<400> 63

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tggaaGTGTT tcggcagaa 139

<210> 64  
<211> 141  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_117057\_11

<400> 64

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<210> 65  
<211> 142  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_23092\_13

<400> 65

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atGAGAGGAC atAAAGGGCT AA 142

<210> 66  
<211> 144  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_297741\_14

<400> 66

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tttttatattt attttttattt ttgcattttg aaaaaacaga ctctgttttg ctttttcgaa 120  
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<210> 67  
 <211> 145  
 <212> DNA  
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<223> Seq ID: 240017\_region\_G3\_206502\_14

<400> 67

agaagaagac gacgacatcg aagagccaga agacgaagac gaagaagagg aggaggagga 60  
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<210> 68  
 <211> 145  
 <212> DNA  
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<223> Seq ID: 240017\_region\_G3\_221223\_13

<400> 68

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<210> 69  
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<223> Seq ID: 240017\_region\_G3\_169084\_14

<400> 69

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<210> 70  
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 <212> DNA  
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<223> Seq ID: 240017\_region\_G3\_94891\_14  
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acaatgcctt ctcttcgttca gttggagggt ctgttagtgc tgaaacagtt gcatcgttt 180  
gccttatgtt ctcttcgttca atatgggtgt taaaatgga ttttgccaca ttgatgaaga 240  
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<210> 71  
<211> 147  
<212> DNA  
<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_281852\_61  
<400> 71  
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tatatatata tatatatata tatatatata tatatatata tatatatata tatataccac 120  
aaacgacgga ggattaatga aagactg 147

<210> 72  
<211> 147  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_46583\_12  
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aaaaaccattt cttcaacttg caacaca 147

<210> 73  
<211> 148  
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<223> Seq ID: 240017\_region\_G3\_306835\_13  
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caaatagtaa gtcactataat atgacgtgtt tggtttcacg tctttacagc gtgcgtgcgt 120  
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<210> 74  
 <211> 149  
 <212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_85471\_12

<400> 74

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 gaagcaaggg aaagcaaaga agctaataat 149

<210> 75  
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<223> Seq ID: 240017\_region\_G3\_\_257208\_12

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<210> 76  
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<223> Seq ID: 240017\_region\_G3\_\_150390\_17

<400> 76

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<210> 77  
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<223> Seq ID: 240017\_region\_G3\_34697\_75

<400> 77

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<210> 78

<211> 150

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_150374\_13

<400> 78

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<210> 79

<211> 151

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_40513\_22

<400> 79

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 ttgcattcag gtgtggccttc acattttattt g 151

<210> 80

<211> 151

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_268602\_14

<400> 80

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<210> 81  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_25357\_13

<400> 81

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gcttcggcgc cgaaggccaga ggagattccg ct 152

<210> 82  
<211> 152  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_137548\_13

<400> 82

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gaggttaagaa aaggaaata tcattttctc attcatcccc ttgcttgta tttacatgga 120  
tatatatatagc attcctctta acaaatactgt gc 152

<210> 83  
<211> 152  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_\_139131\_13

<400> 83

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tatatatatagc attcctctta acaaatactgt gc 152

<210> 84  
<211> 153  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_203855\_12

<400> 84

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gatgcctaaa acaacacaga tgtgagcaca tga 153

<210> 85  
<211> 153  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_199049\_15

<400> 85

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taatttcatt tgctcagtga gtttatgg tga 153

<210> 86  
<211> 154  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_320907\_12

<400> 86

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gagagggccgg aggatggcga gcttaataatc ggag 154

<210> 87  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_16407\_17

<400> 87

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<210> 88  
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<210> 89  
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<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_264495\_13  
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ccatctaaaa ttcagtatgc attcccttga atctc 155

<210> 90  
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<223> Seq ID: 240017\_region\_G3\_156785\_13  
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agaacagcgt cctctttctc tctcttcaac gccaac 156

<210> 91  
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tttcggtacc ggggttggtc atgggtcaag ataaat 156

<210> 92  
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<223> Seq ID: 240017\_region\_G3\_214106\_13

<400> 92

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ctccgcgaca ggctctege gtgetctact ttaaac 156

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<210> 93  
<211> 156  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_149013\_12

<400> 93

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taacattact ttctctttt gtatgtgtgc gcataactttg actcaattca acaatttat 120  
atataataat caaaggaaaa taaaatgtcta gtgtgc 156

<210> 94  
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<223> Seq ID: 240017\_region\_G3\_326352\_16

<400> 94

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<210> 95  
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<223> Seq ID: 240017\_region\_G3\_278962\_12

<400> 95

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<210> 96  
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<223> Seq ID: 240017\_region\_G3\_256930\_13

<400> 96

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gtgcaataaa aattggttt ctttatcaga ctgggaa 157

<210> 97  
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<223> Seq ID: 240017\_region\_G3\_29646\_14

<400> 97

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<210> 98  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_29618\_13

<400> 98

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<210> 99

<211> 158  
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<223> Seq ID: 240017\_region\_G3\_\_108561\_14

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<223> Seq ID: 240017\_region\_G3\_\_143975\_14

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tggttatgac ctgtgaatgt gatactactg acgatggg 158

<210> 101  
<211> 159  
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<223> Seq ID: 240017\_region\_G3\_\_108431\_20

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<210> 102  
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<223> Seq ID: 240017\_region\_G3\_\_281764\_11

<400> 102

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<210> 103  
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<223> Seq ID: 240017\_region\_G3\_\_130058\_15

<400> 103

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<210> 104  
<211> 160  
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<223> Seq ID: 240017\_region\_G3\_\_310590\_52

<400> 104

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ctttaaaata atgtcgtaga acaccatattt gggttttgggt 160

<210> 105  
<211> 161  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_313405\_14

<400> 105

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acataattta gagaatttc cagaaccagt ccaacataat t 161

<210> 106  
<211> 161  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_302190\_13  
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<210> 107  
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<223> Seq ID: 240017\_region\_G3\_225343\_17  
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<210> 108  
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<223> Seq ID: 240017\_region\_G3\_208823\_14  
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<210> 109  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_74285\_11  
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aaaaactttt atagctagct taccaggacg ttgcagatga att 163

<210> 110  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_109052\_16

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gcacaaaata tattttatta gccagaaagc actgacattt a tgg 163

<210> 111  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_6395\_12

<400> 111

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<223> Seq ID: 240017\_region\_G3\_244905\_16

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<210> 113  
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<223> Seq ID: 240017\_region\_G3\_244956\_13

<400> 113

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<223> Seq ID: 240017\_region\_G3\_117220\_13

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aaacgcacgc ctattatttc atgctgagag tgaagaagat gggag 165

<210> 115  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_134707\_14

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<210> 116  
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<223> Seq ID: 240017\_region\_G3\_35078\_13

<400> 116

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<210> 117  
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<212> DNA

<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_210506\_16  
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<212> DNA  
<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_116961\_26  
<400> 118

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actatagaaa ttaaattaaa ttgaaatttg gttacacgag tcaggaccat 170

<210> 121  
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<223> Seq ID: 240017\_region\_G3\_229651\_18

<400> 121

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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_303308\_19

<400> 122

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<210> 123  
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<223> Seq ID: 240017\_region\_G3\_168373\_20

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<223> Seq ID: 240017\_region\_G3\_253333\_17

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<210> 125  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_5791\_13

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<223> Seq ID: 240017\_region\_G3\_\_202827\_12

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<210> 128

<211> 177  
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<223> Seq ID: 240017\_region\_G3\_322656\_13

<400> 128

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<210> 129  
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<223> Seq ID: 240017\_region\_G3\_111841\_14

<400> 129

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<210> 130  
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<223> Seq ID: 240017\_region\_G3\_192719\_13

<400> 130

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<210> 131  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_195630\_17

<400> 131

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aga 183

<210> 132  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_69999\_13

<400> 132

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<210> 133  
<211> 184  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_11176\_13

<400> 133

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<210> 134  
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<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_228643\_13

<400> 134

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acctcttaac ttgcttcaaa atgaaacctc ttgcattaat ccaatcgatc attgaatgag	180	
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<212>	DNA	
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<223>	Seq ID: 240017_region_G3_108950_13	
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<210> 138  
<211> 187  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_188337\_14

<400> 138

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tccttgat 187

<210> 139  
<211> 189  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_255944\_21

<400> 139

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caagaagat 189

<210> 140  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_219518\_14

<400> 140

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<210> 141  
<211> 191  
<212> DNA  
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<210> 145  
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<223> Seq ID: 240017\_region\_G3\_59616\_14

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gaaatttgtgg ttttctgttg tttaattttg cttttggacaa aagataaaac gttttaatgt 180  
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<210> 146  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_296933\_15

<400> 146

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<210> 147  
<211> 212  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_192428\_17

<400> 147

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tttttgaaaa cctttggaa tcacgacata ttattacaag acaaatacat tataacttat 180  
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<210> 148  
<211> 213  
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<223> Seq ID: 240017\_region\_G3\_191490\_14

<400> 148

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gaaagtgata actaattttt ctctctaaga ctgttggaaa aataaaataa aatgaagga 180  
aaataaatac gaagaagatg cacagtctt aat 213

<210> 149  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_201115\_11

<400> 149

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gatataatata tacataaaaaa acaatataattt ttgttgcata tcattttgt tgcattgtt 180  
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<210> 150  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_72882\_15

<400> 150

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tcacttctta ttaagtggtc atgtgtgaac attaaattac c 221

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<210>      151
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<223>      Seq ID: 240017_region_G3_69514_13

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attttagtta aataaaataa acattttat ttcaattct acaagctaat aactagtat 180
tactaaatgc atagagtatg agcaaattcg tgttagtgtga tt                222

<210>      152
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<213>      Glycine max

<223>      Seq ID: 240017_region_G3_37699_47

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tatatatata tatatatata tatattttag tatggaagga gtactctatt caatgagatg 180
aatatgtttt aacaaaaaga ttgatttaggc gattaagaaa gaagaga               227

<210>      153
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<213>      Glycine max

<223>      Seq ID: 240017_region_G3_11301_29

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ttaacttaaaat caagcaaaaa caatggataa gatggaaatgttatacataaaaatata 180
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_141875\_12

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tttgtttta attagaaaag catttaatta ttattattt taacatattt ttaattgaaa 180  
aaatattttt gccatttgc tgattttcta cactactcaa cacaacaatt tgctca 236

<210> 155  
<211> 238  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_\_98090\_18

<400> 155

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atattttctg agcgtggaaa tcggtaaac acgtggcagt ggctttaca agttgtctt 180  
ttttgttata aaaatttgca agttgtctg aagcttctgc ggattgtact gcatatgt 238

<210> 156  
<211> 244  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_\_43298\_35

<400> 156

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aaaaataattt cattttttt gaatacatga cttttatata tatatatata tatatatata 180  
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<210> 157  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_262094\_11  
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tattactttt ttaactaaat ttaaattata gagatgattt ataattatac atacaaggta 180  
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<210> 158  
<211> 248  
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<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_\_262079\_15  
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tattactttt ttaactaaat ttaaattata gagatgattt ataattatac atacaaggta 180  
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cattagaa 248

<210> 159  
<211> 263  
<212> DNA  
<213> Glycine max  
<223> Seq ID: 240017\_region\_G3\_\_59090\_12  
<400> 159  
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tcacaaggcat aatgtaaaaa aaataatatt atttctcata acccttatata tatatacacg 120  
ccacataata cgtacgaacg taagtgtatc tatcatgaaa gttcttgaat ggctttcttt 180  
tcagggtgaa tacatataatt aatggatagt gttttttgtt ggtcattgtt tcttattatt 240  
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<210> 160  
<211> 265

<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_\_245723\_13

<400> 160

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aaaagaaaaga cataggttaa tgatattttt gctctctcaa tttcacact aaactttttta 180  
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<210> 161  
<211> 266  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_194628\_54

<400> 161

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attttaataa ttatacgtat tacaatatctt cattacttaa cattgtaaaaa cattttacaa 180  
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aactgacgtg tcggagttgg taacat 266

<210> 162  
<211> 268  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_\_4566\_16

<400> 162

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actaaacccaa tcaacaaaaga aaataactca aattcttaattt gaaacaaaatg aaaagatcat 180  
ttcactgttc tagataaaattt ttatgtatata taatgtaaaaa gtgaatttaat accttaatattt 240  
agatagtaca caggcaactt tcaagaaaa 268

<210> 163  
<211> 274  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_96209\_14

<400> 163

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agaaaaaat tatgtttttg ttgatttttt atacccctttt aaaatttata taataaaat 180  
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catatttga agagggagcg aaagcctaca ttac 274

<210> 164  
<211> 274  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_248715\_17

<400> 164

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gaattaaata tcacagtcaa atttaaatta aattaaattt ataacatatg tattttat 120  
ctaaatttaa aaaaactgtc aaaaaaaatt cttttttata taaggatgt gttaatttaa 180  
tttatTTTG agtgtttaat cttacaataa cgagtagcta taatagacag cgatatcgag 240  
ttgttaatac gagtagcaag caataccaca agaa 274

<210> 165  
<211> 280  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_71410\_40

<400> 165

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taataataat aataataata ataataataa taaaagtttta ggaagaaaaa tgagaaaaact 120  
aatttagtttgc gggTTTATT taagttttt ttagttttag aactaaat gacatataga 180  
tacaatTTTA aagatTTAAT tcgtcattta ctcattttt attagacaaa atttagttt 240  
aagcatgcat accTTTTGTT tcttgaatct agccaaactt 280

<210> 166  
<211> 284  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_226519\_13

<400> 166

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acacacttca tacaaacaaa atccctcacca ttctttttt cattttgtt ccctttaca 120  
ccatatatct cacatttttt aggaggggaa ggataaggtt atatcactt atttgtgtaa 180  
gttaactttt tggattaata attgattatt attattaaat aagacaaccc gaatataact 240  
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<210> 167  
<211> 285  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_11282\_19

<400> 167

cgaatttcgt aaggcaatct tattggatt ataattttct ctactgatta tgtctaacc 60  
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tgttaataaa aatcagaaaa atgttgaat cacttcaaa actgttagtta ataaaccta 180  
actaaatcaa gcaaaaaacaa tgataagat ggaagtttag tgataaaaa atatatacag 240  
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<210> 168  
<211> 286  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_170504\_12

<400> 168

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cttaattata ttgaacaaaa aataatatta tatattaata ataataaata aatttcactt 120  
aaaagtgtca ttaattataa attttttttt accaaagcga tatcggtttg ataagttaaa 180  
aaaaaaaaacg tttaatacaa gtttttaact gatthaacga tttaaatcg atgttaaggat 240



atatacatacata atatgtttttt taaaacaaaa cttaaacaaa cacactaaga 240  
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<210> 172  
<211> 292  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_309211\_13

<400> 172

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atttttttt tttcattatt ctcaaactaa ataactttgt ttctattcta ctttttatat 180  
atttctatcc accttttttta atttctatgtt atcatatctt gtactttttt taattttctt 240  
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<210> 173  
<211> 293  
<212> DNA  
<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_55568\_26

<400> 173

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aacaaaaaac aatgttagaaa tggatcttagaa aactttttt ttaagttctt actcttttc 180  
atcaatgtta tacatataata tatatatatac ccaaataac caatcaaata 240  
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<223> Seq ID: 240017\_region\_G3\_73238\_16

<400> 174

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acttaattat ttcttcatca aatattaatg agatgaatag agaaataaga aaagaataat 180  
 ttttgaatga taatataatt aattaattaa taaatattat gtgattaatt aaattaatta 240  
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<210> 175  
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 <212> DNA  
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<223> Seq ID: 240017\_region\_G3\_52488\_19

<400> 175

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 gattttatca taaaatcata atgatttctc ataatgtatc tttacattt aaagtttagat 180  
 aaataaaaatt gatTTTaat tgTTTatTTT aatTTTaaaata cataatTTat atgactttt 240  
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<210> 176  
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<223> Seq ID: 318013\_region\_A3\_471518\_14

<400> 176

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<210> 177  
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 <212> DNA  
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<223> Seq ID: 318013\_region\_A3\_231599\_23 -

<400> 177

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<210> 178  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_375912\_13

<400> 178

gacgcatctg tcacgaacga cggccctgcag cgaggagttc tgcgcagagaa gacgaagctg 60  
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<210> 179  
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<223> Seq ID: 318013\_region\_A3\_180013\_12

<400> 179

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<210> 180  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_171606\_14

<400> 180

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<210> 181  
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<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_416256\_13

<400> 181

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<210> 182  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_231395\_15  
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atc 123

<210> 183  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_5502\_47  
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aaagc 125

<210> 184  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_93061\_14  
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gcctc 125

<210> 185  
<211> 127  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_111684\_19  
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ctcacgta 127

<210> 186  
<211> 128  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_69328\_14

<400> 186

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gcgtttgg 128

<210> 187  
<211> 130  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_36529\_17

<400> 187

tcagagactt ctttgcttgg atgaaaattgc aggttcaattt cctctctctc tctctctct 60  
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cctgttagttg 130

<210> 188  
<211> 132  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_139128\_12

<400> 188

cagttcgccg atatctgatt ctacccac tggtgtaaaga tactaaacag ccacttttgg 60  
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gaacctcaact gg 132

<210> 189  
<211> 132  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_495674\_13

<400> 189

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aatgaccgca aa 132

<210> 190  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_187577\_13

<400> 190

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ggatccagta ag 132

<210> 191  
<211> 134  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_453036\_14

<400> 191

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gaagtgc当地 aggg 134

<210> 192  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_374041\_13

<400> 192

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catggtgaa caaa 134

<210> 193  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_3412\_11

<400> 193

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ggctttgggtt aagggtt 136

<210> 194  
<211> 137  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_276495\_28

<400> 194

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ggctacacgt tgcaact 137

<210> 195  
<211> 139  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_151839\_17

<400> 195

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ccctcccttc ctcttcctg 139

<210> 196  
<211> 140  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_292912\_12

<400> 196

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ttctctctcta ttccctaaggg 140

<210> 197  
<211> 141  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_104560\_12

<400> 197

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<210> 198  
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<223> Seq ID: 318013\_region\_A3\_65193\_11

<400> 198

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ctggtttgga agaacagcat a 141

<210> 199  
<211> 284  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_110573\_70

<400> 199

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cacataaata ttatatccag cgtcagcgtt atcctttct tc当地aggat tgacttcccg 180  
ctccctgcca cgcatcccata caccacttt gttcccccata ccacctgtac gtccaccacc 240  
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<210> 200  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_\_65117\_12

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<210> 201  
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<223> Seq ID: 318013\_region\_A3\_\_490837\_16

<400> 201

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gaaagtcac cacacaatgc atgt 144

<210> 202  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_\_107448\_11

<400> 202

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atccaaaccatg aaattttatgtt aatggaa 145

<210> 203  
<211> 146  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_\_331\_23

<400> 203

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146

<210> 204  
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<210> 205  
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aaatctttgt gttgggtctca ccctgt 146

<210> 206  
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<212> DNA  
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&lt;223&gt; Seq ID: 318013\_region\_A3\_55050\_14

&lt;400&gt; 206

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cttctaaccg ggcaagtaga agattct 147

<210> 207  
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<212> DNA  
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<210> 208  
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ggagaacatg aagaagacaa cgaggccag 148

<210> 209  
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<223> Seq ID: 318013\_region\_A3\_4654\_22

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<210> 210  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_408959\_13

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gcggcacaag cagaccacgc taactacac 149

<210> 211  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_132288\_22

<400> 211

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catacaatgg tgtccaagac ataagcaac 149

<210> 212  
<211> 149  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_292822\_20

<400> 212

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ttatgggtat atgttttgtt ttctgtgt 149

<210> 213  
<211> 149  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_311076\_12

<400> 213

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<210> 214  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_509623\_13

<400> 214

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tccctctctc ttctaaaaaa ccagaaaacaa caaacacaaa cggaaaaaggc gaaagggtt 120  
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<210> 215  
<211> 149  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_\_190404\_14

<400> 215

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<210> 216  
<211> 150  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_\_164916\_15

<400> 216

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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_\_21028\_13

<400> 217

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<210> 218  
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<212> DNA  
<213> Glycine max

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<213> Glycine max  
  
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caacaaaac tccg当地 tccagg gggatcagg aattt当地 cacca actacgctag attcgc 176

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<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_\_332465\_14  
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gttagt当地 taat ttgat当地 attggtgata tgtctgaaatgta taat当地 ttattt ggccatgcat 120  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_\_207697\_14  
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gttagt当地 taat ttgat当地 attggtgata tgtctgaaatgta taat当地 ttattt ggccatgcat 120  
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<210> 280  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_277229\_43

<400> 280

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<210> 281  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_36366\_11

<400> 281

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tcgacggcga ctacgacatg aggatggta tggcttcgtt tggggcaag ctcagctta 120  
aggagatgtc ctgttgctc aaggacaga aggggtggag gcaagtcaga gacttctt 179

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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_91970\_12

<400> 282

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tgtaccttag gtttttattt gaattaaata atattgttaa ggtcgaatag aatcatgga 179

<210> 283  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_211533\_11

<400> 283

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<223>      Seq ID: 318013_region_A3_336301_11

<400>      284

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<212>      DNA
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<223>      Seq ID: 318013_region_A3_441603_14

<400>      285

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<212>      DNA
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<223>      Seq ID: 318013_region_A3_468354_15

<400>      286

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<210>      287
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<400> 290

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<210> 291  
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<223> Seq ID: 318013\_region\_A3\_491126\_11

<400> 291

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 gct 183

<210> 292  
 <211> 184  
 <212> DNA  
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<223> Seq ID: 318013\_region\_A3\_99512\_21

<400> 292

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 cttg 184

<210> 293  
 <211> 185  
 <212> DNA  
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<223> Seq ID: 318013\_region\_A3\_280291\_17

<400> 293

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tacccaaaaa caggatcagc aatgaaaacat gaaggaagga aggaagggtta gaacttatac 120  
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gtccc 185

<210> 294  
<211> 185  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_138443\_19

<400> 294

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gaacc 185

<210> 295  
<211> 185  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_115973\_14

<400> 295

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aactaaaatc aaggctttta tccttacctt acctttcggtt gaggaagcac cacttgaaca 180  
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<210> 296  
<211> 187  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_329977\_14

<400> 296

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gctttcc

187

<210> 297  
<211> 187  
<212> DNA  
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&lt;223&gt; Seq ID: 318013\_region\_A3\_\_205203\_14

&lt;400&gt; 297

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tatataattat tcgttttgac ttatgaataa tgcttcaaaa cagagaggta tgttttatata 120

tattattttttt ctatattggaa aatatctact aatggatcatg aatagaatag atgtccttcg 180

gctttcc 187

<210> 298  
<211> 188  
<212> DNA  
<213> Glycine max

&lt;223&gt; Seq ID: 318013\_region\_A3\_\_153114\_12

&lt;400&gt; 298

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atATATATATATATATATAA TAATAATAAT TTATGAATAAA AAAAATTATAA CAGCAACTAG 120

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tcctgaca 188

<210> 299  
<211> 190  
<212> DNA  
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&lt;223&gt; Seq ID: 318013\_region\_A3\_\_34581\_13

&lt;400&gt; 299

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ctccTccTcc ctctgcgcct gcctcagcat cgggttatgc tcctccaccc agaaccgcCc 120

tagatccTgc accaccgcCa tcgctcaatt gagattgatt tagaacaatg gagttacgtA 180

tacggTgtcg 190

<210> 300  
<211> 191  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_292577\_19

<400> 300

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ataataatata taatatatga ttttggggga agtactttt ttttgttg ttctgtgtt 180  
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<210> 301  
<211> 192  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_445391\_20

<400> 301

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tggtgcgtcc gattggtcaa aatataaaaa tccattttttt gaaattttttt actgttattgc 180  
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<210> 302  
<211> 192  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_350540\_17

<400> 302

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atattaattttttaattttactca tcatcagtca tcaactaaaa taacactaac atgcaaccac 180  
atattaactca aa 192

<210> 303  
<211> 194  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_453879\_15  
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aaactagtgt ctccactga aaaacttta tttaaaaata aaataaaaattt gtcctttctt 180  
gttcttcaat tgca 194

<210> 304  
<211> 194  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_201246\_13  
<400> 304  
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gaatgaaaaa aaaaagaata tcactctcta agttgtctat tctaatttat attataggaa 120  
taaataaata ataaaaaaagt ccaatataat taattcctaa taaaatttag cataatcaatc 180  
aacatcatct tgcg 194

<210> 305  
<211> 194  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_326020\_13  
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taaataaata ataaaaaaagt ccaatataat taattcctaa taaaatttag cataatcaatc 180  
aacatcatct tgcg 194

<210> 306  
<211> 194  
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<223> Seq ID: 318013\_region\_A3\_503801\_14  
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ctccaatgtc ttacatTTT cgctgatTTT atTTTatTTT caattttgtct ttccctcagat 180
tatgttaagt cccca 194

<210> 307
<211> 199
<212> DNA
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<223> Seq ID: 318013_region_A3__302400_52

<400> 307

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ggctatcaat caacagtca 199

<210> 308
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<212> DNA
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<223> Seq ID: 318013_region_A3__448857_15

<400> 308

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aaatttctagg ctgtttaaaaat tttttggaa agtgtttttt gtttcttttca taaattgttat 180
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<210> 309
<211> 204
<212> DNA
<213> Glycine max

<223> Seq ID: 318013_region_A3__48364_14

<400> 309

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acagaaaaaaaaaaa aaaagaagaa gaagaaatca cttcttttc ttaagttgtt taacattttt 180  
ggaattggct tggctctgg tctt 204

<210> 310  
<211> 205  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_251804\_48

<400> 310

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ccaaaaaaa tcataattaaa acaattataa ttccataatata tcagaataaaa taaaaatatt 180  
gaaataaaatg gcaacacaccc atcg 205

<210> 311  
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<223> Seq ID: 318013\_region\_A3\_382583\_13

<400> 311

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ccctatcatgt agctatgtaa ccttagtactt acttacatta tccaattact tggtagttt 180  
cctgatagaa atgggttact ttcc 205

<210> 312  
<211> 206  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_124737\_14

<400> 312

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caatataattt atttattttctt acattttaaa tttaaaatata ggacattgc tcaacacaaa 180  
ttgtgttatttgcacccaaaga ggacta 206

<210> 313  
<211> 206  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_124766\_13

<400> 313

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caatatattt atttattttct acatTTTaaa tttaaaatTTT ggacatTTGc tcaacacaaa 180  
tttgttatttg gcacccaaga ggacta 206

<210> 314  
<211> 209  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_461351\_16

<400> 314

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cgaccaccaa tggcatcatcatcatg ctcccaacta ctattaacac tagagaaacc 180  
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<210> 315  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_64953\_19

<400> 315

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gaaaagagga tgagggcagt gaccctttaa agag 214

<210> 316  
<211> 215

<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_366586\_13

<400> 316

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agtattccaa tagatgtcggt tagaaaaaaaa tcataaattt gataaagaaa aatctaaaat 180  
catacatctt agacaataaa cgcacatgtttt cattc 215

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<211> 217  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_46190\_15

<400> 317

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aaaaatctt ctataaaaaaa atcaataattt cacctctaaa aaaaaacaaa agtgaatcat 180  
gaatgaatgt atgtgtaccc tggccctagcc tgaactt 217

<210> 318  
<211> 220  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_81016\_11

<400> 318

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tctaaaaatgc aataaaaaatgc attgtttgtt gtttgcatttt aaaaaacagc aaaaccttcc 180  
gtgctaaaaat aaacttacca aacaagatgg aatcaaggct 220

<210> 319  
<211> 222  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_134426\_14

<400> 319  
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atgttccat tgagtacact tcaaatttag agaaaggaaa attgagtga aataatgaaa 180  
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<210> 320  
<211> 223  
<212> DNA  
<213> Glycine max  
  
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tttgttgc tatggtatgc tattcacaaa gcaagagccg tta 223

<210> 321  
<211> 225  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 318013\_region\_A3\_187096\_17  
  
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aaaactAGTT attaatCTGG aacaatgttt actcaaaACT agtttataat agtattttta 180  
agttaatTTG aaattttttt ttCGGCGTTA aacaaatact agatg 225

<210> 322  
<211> 228  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 318013\_region\_A3\_381693\_13  
  
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attttagtac agtttgatac taaaaactata atagtaaaaat ttataataaa ctagaaaaata 120  
tactggatct tgtgtttct tactatttat gtcagacatt gtcagcctgc aaaatgaaga 180  
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<210> 323  
<211> 229  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_361286\_33

<400> 323

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<210> 324  
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<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_482668\_14

<400> 324

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ataattctt accaaatcaa attttatggc acacattgtac gtaagtctga 230

<210> 325  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_128002\_12

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gcataacaat gttaaagtta gacaagttaa taccccatat aaaatattta ctagaattct 120  
agagagagag aggtgtatc tgttttctgt tattgtgtatc tgaatcaatc attactatct 180

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<210> 326  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_499270\_14

<400> 326

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atGTTCTAA atCTATGTTT tttatGACTT tgTTAACTAT atAAAACATT tCTAATTATT 180  
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<210> 327  
<211> 242  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_231650\_12

<400> 327

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tggccccctg gaccCCTCCA agtgcACCGC CGCCGGACC gggATCgCCG GCGGAACCGC 180  
gtgcgcTCCG tcTCCCTTG tggtggTggc caaggACGCC gATGAGAGGA aggtttCCGG 240  
tg 242

<210> 328  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_199851\_13

<400> 328

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aaATAAATAAA aAATTGCTAG ATTTGATTC TGCCCTCTGA AAAAGGAAGT GCACATTAGC 180  
atATTAATTA aATATTTCTT TCCTTCTATT ttATTTGATA tTAAACTCAC TAATAGCGTG 240

atggaaaccc t	251
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<213>	Glycine max
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ttaaagacc aattttctaa aaccatgcgt ttatTTTttaataaaacccc tacgcggtaa	120
aaataaataa aaatttgcgt attttgattc tgccTTCTGA aaaaggaaagt gcacatttagc	180
atattaatta aatatTTTCT tccttctatt ttatTTGATA ttaaaactcac taatAGCGTG	240
atggaaaccc t	251
<210>	330
<211>	266
<212>	DNA
<213>	Glycine max
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<400>	330
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aaaaataaaaaa taaaataaaa aataaaaaag ccaagttaacc aaaaatacaa aatagtcaat	120
ccatataaac attcattatt tagatTTGT ttgtataaac ttcttatataa aaacttttag	180
ggggaaagtaa aaagtaaaat acattgagct tctcttataa gttaaaagca ggctagacag	240
atttcttataa tcacccggatt ggatga	266
<210>	331
<211>	266
<212>	DNA
<213>	Glycine max
<223>	Seq ID: 318013_region_A3_460603_13
<400>	331
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tactttcatg taagtataaa gtttagttca taaaactgtat taatgagggtt attataatta	120
ataaaactgac aacagagtat aaattaaaaat atctttattt atttatagaa attctctcaa	180

tacaaaatgtt ttgtatcataa aataaacataa caggttagatc attccctctga tgttatttgag 240  
attagcttgg gcagtttca atcctc 266

<210> 332  
<211> 268  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_108681\_14

<400> 332

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aaaaaaacat gattgtctt gacacataag ataaacatta atttaattta aaaaacaag 180  
aaaaaaagtgt agaggggaga catatatttgc acatttttta ttccaaaga ataagagaaa 240  
tatatatgtt gcttgcattt tgatgaaac 268

<210> 333  
<211> 269  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_459791\_47

<400> 333

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cttattttaa gtgaacctta taataattt ttctttgaca ttttatttttgc agtgaactaa 120  
atgttaatgt cataaaagagt tactgaataa gaatataat atatataat atatataat 180  
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taataataga ggtacctact cgcctcgga 269

<210> 334  
<211> 279  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_4257\_20

<400> 334

tcccaacgc aacatgttgc aaatatttgc agtgaacta tacttttttca tcaaattgtac 60  
tagtaactgt cacaaaattt aattcatata tatataatata tatatgcata ataataattt 120

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ctctcatgca taagtttat tcttaattat ttttttcat aaattactt atgttcact 180
atataaaaaat gaaaaaaatg atataaaaaa agttaaatc taaaataaaa taagacttc 240
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<210>      335
<211>      288
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 318013_region_A3_238810_14

<400>      335

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gttgttctag atattttat ccaaactaag aaaatataat aaatagataa aagaaaacag 120
taatttgata aaatcaattt tattatttt ttacaagcaa aaaaataagt aatgttatgt 180
taaaaaatta aaacaataat tattttgaaa cttattttg ttttacacga taatataatg 240
agagaattat atatataatat aaacgtcatc attggataga aacgatgt 288

<210>      336
<211>      289
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 318013_region_A3_245817_14

<400>      336

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tttagttttt tgttttgtt ttgttttcg ttcttataaa catttttgtt ttgttttaa 120
tctttttaaa ttttttttat ttattttttc acctcaaaa tgattttagat aacaaagaaa 180
aaaatattaa attacaagaa aaaaaaaaaat atataaacct aaaataataa taagagtaaa 240
agatattttat ttatTTTGTCTTAAACACGCGAATGGTAGT 289

<210>      337
<211>      289
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 318013_region_A3_245956_14

<400>      337

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tctttttaaa tttttttat ttattttc atccctcaaaa tgatttagat aacaaagaaa 180  
aaaatattaa attacaagaa acaaaaaat atataaacct aaaataaata taagagtaaa 240  
agatatttat ttattnagct aaatttgatct aaacacgcag aatggtagt 289

<210> 338  
<211> 289  
<212> DNA  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3\_74148\_14

<400> 338

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tttttcata aaaaaaaaaatg ttttacgtc cgtccaaattt attttattttt atatccggc 120  
cttttagttt gtgattgatt ttgattaact ataaaataaa ttaatttcaa caccttattca 180  
gtgtactttg tacactttagt ttaattttt ttagagattt tcttttctta caatttctta 240  
agtgagttaa aaaaatgttg attatttctt catacaactct tgcaagtgtg 289

<210> 339  
<211> 289  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_74089\_15

<400> 339

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cttttagttt gtgattgatt ttgattaact ataaaataaa ttaatttcaa caccttattca 180  
gtgtactttg tacactttagt ttaattttt ttagagattt tcttttctta caatttctta 240  
agtgagttaa aaaaatgttg attatttctt catacaactct tgcaagtgtg 289

<210> 340  
<211> 296  
<212> DNA  
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<223> Seq ID: 318013\_region\_A3\_241686\_12

<400> 340

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cagtagaaag tatatagtct acatgtcaaa aagagttac atataaagga tttaggtataa 120  
caactttaa gaataataaa agatgttaact tatagaaatg gttttctat aactattaa 180  
aacaaactttt taaatagttt taaaaaagtg gacttaatta ttattttt aaggagaact 240  
ctttttttta ccaatthaag gaggacttaa ctgtatgttaa taatgtggc aaatgg 296

<210> 341  
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<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 318013\_region\_A3\_47476\_12  
  
<400> 341

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tttaacttaag atataactttt aatcttccta ttttgttaat tcactatttt ttatctaatt 120  
taaaatttagac acgttttagtt ttcaggtttc gaaaatctct aattttagtt cgatcttcaa 180  
ttttgtcttc atttaatattt attattataa gagacaaaaa cacaataat atatgtattt 240  
aaaccccttat tttatgtca aaatatatgt ttgcaaacctt gggcacataa tggaacac 298

<210> 342  
<211> 299  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 318013\_region\_A3\_164550\_12  
  
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accggcatat tttttccca ggtcatagat caatgtataa ctatggttgg tgaaaaaaaaag 120  
ttttataactt gatgaaaata tcaaataatttt ccggctac atatttttat ttacctgaac 180  
tcaacaaaaac aaaaaccttac gtatgtttt aatgtacta atcgactaga gagagagagg 240  
aaaaaaaaaag ataaaaatag aaataaatag acatttttat ccggaggg ccatatgtc 299

<210> 343  
<211> 300  
<212> DNA  
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gaatatatttt tttaggttata tatataatata ttagtagtcc tacctcggtt taatatttt 180
tattttttta ataaaatata caaatttta aacaattttt tattaaggaa aaattaatca 240
tttttttttttta ataattttatc aaaaattttgc tttagatgac cacattttaat tagtccatg 300

<210>      344
<211>      101
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 515002_region_G2_16189_11

<400>      344

ttccacaaaat ccaaattcca aattcatgtt ctaacctcta acaactatata atatatttc 60
tgtcatttga tgagttatgtct ttgatttcct atggaaatctc a               101

<210>      345
<211>      108
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 515002_region_G2_71925_13

<400>      345

tccgacttttggctatata tgggtgtgtt ttgtttcatg ttgtatattct ttctttctgc 60
aaaccatata gcaatataag tgggtttgtaa tggatcatcg gcacaact               108

<210>      346
<211>      110
<212>      DNA
<213>      Glycine max

<223>      Seq ID: 515002_region_G2_4707_12

<400>      346

caagatcaag cacccttgg tctctttttt ggattttattt gcagggttttgg ttttttttga 60
atcgatatttc tgggtgcata tttttacac gttttttttt gttttttttt gttttttttt 110

<210>      347
<211>      111

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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_118904\_18

<400> 347

tagctgcata acctctcagt ttctgttagt ttagccaaat gcatgttatat aggacaaaata 60  
tatatatata tatattagct aaattgaaat cagggtaca tttaaggaca a 111

<210> 348  
<211> 132  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_13655\_17

<400> 348

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ccacaggagc tt 132

<210> 349  
<211> 143  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_53900\_13

<400> 349

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tcotttacatt ccaccaagca cat 143

<210> 350  
<211> 145  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_8079\_14

<400> 350

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gcaagaggaa agagagacag agatc 145

<210> 351  
<211> 146  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_9969\_28

<400> 351

tcaccagaga cgcattatca gattcaaacc gaagaaaagg gagcaatttag ggattattat 60  
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tgagaaggaa acagtagctg gtagcg 146

<210> 352  
<211> 147  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_72308\_77

<400> 352

tttcttaaac agatcactgg tatgaaaaat ccatactata tatatatata tatatatata 60  
tatatatata tatatatata tatatatata tatatatata tatatatata tatgataaga 120  
acctcctccc ttactactcc ctagtca 147

<210> 353  
<211> 147  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_99475\_19

<400> 353

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catgtAAAAT aataataata ataatagAAA tcaAGAACAA gtatgtccaa aaaattttagg 120  
gagggtataatc gaagattcct gactcaa 147

<210> 354  
<211> 147  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_118615\_18

<400> 354

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 acaacttagc gcccatacat acaatca 147

<210> 355  
 <211> 149  
 <212> DNA  
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<223> Seq ID: 515002\_region\_G2\_119001\_46

<400> 355

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 tatatatata gatagataga tagatagata gatagataga tagatagata gatagacatg 120  
 tacagcataa tcaagttgac caaatgcct 149

<210> 356  
 <211> 149  
 <212> DNA  
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<223> Seq ID: 515002\_region\_G2\_118958\_43

<400> 356

tgaaatcagg gctacattta aggacaaata tatatatata tatatatata tatatatata 60  
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 tacagcataa tcaagttgac caaatgcct 149

<210> 357  
 <211> 149  
 <212> DNA  
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<223> Seq ID: 515002\_region\_G2\_17197\_13

<400> 357

cggagtccga gtagtcgagt agacatagtg gggggcgata tcgcgatagg atttatcctc 60  
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 ataaaggttt catcgactc ggtattatg 149

<210> 358  
 <211> 150

<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_105163\_29

<400> 358

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ataagatggg aatgcatagg tacaatgtt 150

<210> 359  
<211> 151  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_111335\_13

<400> 359

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ctgaggggctt tgagctact gtggctaat agacctcggt aacctgctta gtctcacaaac 120  
aaggttacaa gagcgc当地 a ctaataacatg a 151

<210> 360  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_106396\_13

<400> 360

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atgattactg gtactttctt ctggcagttt tt 152

<210> 361  
<211> 152  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_59229\_17

<400> 361

gcttgtcagg agagaaaatgt tgctaaaaaa gaaaagaaaa gaatgaacga cgctaaaact 60  
agattgtatg tgaatgatag acagaagaat attaatattg taaaattgac ctctttaaga 120

ttgacccact cccatgttcc atttgtgaa tt 152

<210> 362  
<211> 153  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_73795\_20

<400> 362

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tttttagaaaa gggtttaatt tgttattctt ccc 153

<210> 363  
<211> 153  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_85664\_20

<400> 363

tgtcaatcaa taaccattga tctccattacc tattcttaat tttagtttta taatatacg 60  
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<210> 364  
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<223> Seq ID: 515002\_region\_G2\_36921\_17

<400> 364

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agaaaaagatt ttggagaagc aattttctcac tcct 154

<210> 365  
<211> 155  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_124150\_19

<400> 365  
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ccattgttgt aatggcagaa atcagtggtc agtga 155

<210> 366  
<211> 158  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 515002\_region\_G2\_5089\_14  
  
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tagttgaaaa aaaaatttcag tttcatttttta ttattttattt atttttcatc aagtggtaat 120  
atgacatacg gagtgttgcc tcaaacatgtc ttgttatg 158

<210> 367  
<211> 158  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_58221\_15  
  
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tcacttttag cattttttttt gttttctcca tttccatg 158

<210> 368  
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<213> Glycine max  
  
<223> Seq ID: 515002\_region\_G2\_96139\_14  
  
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ttttttcgtc agcttgaatg acacttggat ttagacaaaag gttttttcat aataattata 120  
ataataataa ttttcacgta aggtttagca taggacgagt t 161

<210> 369  
<211> 163  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_70595\_13

<400> 369

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agaatataata tatataataaa ttccaaatga aataccacaa aca 163

<210> 370  
<211> 166  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_4340\_15

<400> 370

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<210> 371  
<211> 169  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_90417\_11

<400> 371

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tcatcagaaa ggatatgaaa tgttaccaag tcaagtacag gctaccagg 169

<210> 372  
<211> 169  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_49711\_17

<400> 372

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<210> 373  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_63053\_13

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<210> 374  
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<223> Seq ID: 515002\_region\_G2\_63076\_14

<400> 374

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ttatggaaa gcaattttt ttatgtgtt agtaaagatt gcagcaaga 169

<210> 375  
<211> 171  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_44442\_12

<400> 375

aacgcgtttt tttttttttt tcaactaattt tttttttttt gttttttttt gttttttttt 60  
aagcaatcaa gaaagaagc ttcttgtattt cattttttttt ttctttttttt ttctttttttt 120  
gactacaaaa ttatgtgtt gttttttttt gttttttttt gttttttttt gttttttttt 171

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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_44422\_19  
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aagcaatcaa gaaaagaagc ttcttgatt cattcattca ttcattatgt gtgtgtgac 120  
gagtagacaaa tttatccatc gaatctgagg tgtttcatat agccatgttgc 171

<210> 377  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_44158\_19  
<400> 377  
tttcattacg tgcgtttgtt caactactat gaaacaaaca tgaaaaatgc acaatttact 60  
cgtagaaata ataataataaa taaaataaaa taaataaata aaataaagta ttttttgaaa 120  
aataaaagat tgtagtact agttactacg gagtatcgta ttctatcat ccaccctg 178

<210> 378  
<211> 178  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_44141\_17  
<400> 378  
tttcattacg tgcgtttgtt caactactat gaaacaaaca tgaaaaatgc acaatttact 60  
cgtagaaata ataataataaa taaaataaaa taaataaata aaataaagta ttttttgaaa 120  
aataaaagat tgtagtact agttactacg gagtatcgta ttctatcat ccaccctg 178

<210> 379  
<211> 178  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_\_90762\_17  
<400> 379  
ccagagat gattcaatac aaaggaaatt aagttaaacac taactcaaca ttctaaattt 60  
tctttacttt tctctattaa tatttttta aaaagaaaat tcttctcaca tatacaaaga 120  
gtcttggagg ggcaatgccc ccccttgaat cgcttaccac agggtaat 178

<210> 380  
<211> 182  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_106241\_14

<400> 380

tagatagcta gccatgttgg catgaagatt tgagcggaa aataataaga caacatacat 60  
aacgtttctt ccaaagtggtt ttttttattt atttttttta tcataagggtt tggctttta 120  
gttttttattt ttcagtttt tggataat tctattaact gtcaaggag gaaatttgta 180  
ca 182

<210> 381  
<211> 185  
<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_109676\_12

<400> 381

tcatgttctt tgaggacttt ctcatattttt ttggattttt atcaataact tcttctactg 60  
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tacattatgc aagatttact caaatgcttt ttgtacttaa aatggctatc actcagtg 180  
agtga 185

<210> 382  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_86242\_14

<400> 382

ccacaactcc gatttatccc ataacaataa gtaaaaata agtaaaatgg acatgagttt 60  
tagcaaaaaaa aaatagaaaaa actaaggcata ctaaaacattt atcattttaa gaaagaaaa 120  
aaaaagacta tcataactga tttaggatcat aaaattctt gaaactccaa atttcttctt 180  
tgtgc 185

<210> 383  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_83109\_12

<400> 383

tcacccctta ggagatccta gacactttag gaaaagtata aagacaactt atcaattttc 60  
aaaagtctga aatctttttg agttcgatta ttcaacaaca acaaagacac aaaatcttt 120  
ccttaggtgtc actaaaagca ttggatccaa caaatatttta ggacttcctt caatcattgg 180  
caagag 186

<210> 384  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_10461\_15

<400> 384

ggctgtgtgt gagttagagt gagagtgaga gtgagggtgg ataaaaacaaa caaacaaaac 60  
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gaaagtggta tgatttagtgt ttgttaacagt aagtgttatt tgtaaatgtat gatttagggg 180  
aataagggtg ca 192

<210> 385  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_67608\_15

<400> 385

ggtggttaga tccaaattca tgttgaattt aatattgtgg aacaaaaagg cggtgttata 60  
tatatatata tgatggtcga tggtgcaaga ggggatcggg agattatact taaagaagca 120  
gaagcatact tgtaactccaa tctaataaaaa atgttctata tataatagaa aatacggata 180  
cgtgctgtac agga 194

<210> 386  
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<212> DNA  
<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_63275\_46

<400> 386

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tgcctgcata gtacattta ttattagttt gtttgatgtat ttggaaattt tgtggtttaa 120  
tttataata tatatatata tatatatata tatatatata tatatgtata tattttgaag 180  
gaattgagga gcggaggata 200

<210> 387

<211> 203

<212> DNA

<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_62405\_14

<400> 387

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caaacacat aataaaaaat gaaaagaaga atagaaggaa aaatagactc aaaatgagat 120  
tttggaaatta tataattaat aatccaatta atctcatgag atattattct ataactataa 180  
cttatggacc gtttggaga gat 203

<210> 388

<211> 211

<212> DNA

<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_33563\_12

<400> 388

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ctcatttata aattattgtc aaagataatt ttgttgaaca aatttttaa atatttacaa 180  
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<210> 389

<211> 243

<212> DNA

<213> Glycine max

<223> Seq ID: 515002\_region\_G2\_33146\_14

<400> 389

cgaaccctaa acatttcaaa ccaaatttact cacagatata gttttttca aaaattgatt 60

gagagatcgt gtagaaaaag taaattcaa gaaaaactca tcctcaatat cctttttgtc 120  
ttggtttata aacatgagag aattggaaa acgctttgtt ttttgatcc attctcacat 180  
ctgcgatccc gcttctttt ctttcttct ccatgtatg tgtttccaac ctttcttcgt 240  
aaa 243

<210> 390  
<211> 251  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 515002\_region\_G2\_102179\_29  
  
<400> 390  
  
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taaattatata tacaactat atatatataat atatataat atatattatg taacaaattt 120  
tatgtgcgtt tagataaca agaatcaaac aataaaaaataataaaaaata agcttaagt 180  
attaatatcc ctAAAattaa atcagataaa ttAAAatggtttgtatatttgcattgtt 240  
gacttgttgg a 251

<210> 391  
<211> 257  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 515002\_region\_G2\_2646\_15  
  
<400> 391  
  
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aaaataagat aaatcaattt ttccacaagt taaattttat ttatTTTTT ggaattttta 120  
caagaataaa aaaaattcat aactaaaaat taactcatgt atgataactt tttaatagtt 180  
ttttgttta atttcccaa aagataaggc gtataaatta attttagttt acgagagaaag 240  
ttggatttgtt ttatTC 257

<210> 392  
<211> 269  
<212> DNA  
<213> Glycine max  
  
<223> Seq ID: 515002\_region\_G2\_76652\_24  
  
<400> 392

actaactctt gcgtgctctt tgtttcaaac aatcaaatta atataagggt atttgttagt 60  
 gtttagata ttgggtaaga aatcaataata tatatatata tatatatattt gtataaaatta 120  
 taagagaata taaaaaaattt atgaatagta taattttttgg ttttcaattt tttaaaattt 180  
 taattaaagg aaaattgggtt atattaaaa ttattctta tggaaagaa aaattgataa 240  
 atgattttga tccagtatat gtcccaggg 269

<210> 393  
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<223> Seq ID: 515002\_region\_G2\_66280\_14  
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 ttatactaataat taacagttca atcctgctag ataaatgcattt ttcttatataat acactgacag 180  
 aacagtttttta atgcgtttttt aattttttcc tggggtaataat aatgattttt tgtttggtttt 240  
 ttagaaatttgc acatttttt cacttaatac atggggctaaa tct 283

<210> 394  
 <211> 284  
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<223> Seq ID: 515002\_region\_G2\_54768\_13  
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 ttatattttca ttattttttat tttagtaatag tagtataatgatgatgatgatgatgatgatg 180  
 taaatgtaaa ttaaatattat tatcattatgtt atttgttagga atgtaaaattt taattttaaat 240  
 gaaaaatattt atatgacaaa agttatgggtt caatattgtt cctgtt 284

<210> 395  
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 <212> DNA  
 <213> Glycine max

<223> Seq ID: 515002\_region\_G2\_62580\_14

<400> 395  
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tttctttgtt taattgaaga aaaataaaga aacaattgc ttctagaat aaaaattcaa 120  
aacatccat atgttttaac tttttttaa ttccaaattt tccttttctt gattttctt 180  
tccactaca attgacttag tcagactgaa cgtgatactt agatacatac atgcaactct 240  
cagttactact cctcacctct atataatctt cactcttgc ttctctt 289

<210> 396  
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<223> Seq ID: 515002\_region\_G2\_34598\_55

<400> 396  
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cttattaaat taaatagatc agacttaggc ttgttaaaaa gccttataag tctgataggt 120  
cggcctatata atatataatata atatatgtat atgttatataat atatataatata 180  
ttatattattt tggtgatacc aatttataact tatattattt ttgggtaca attaattttt 240  
tttggaaacc agcagactttt gattatacat tactgctcca taactccat tcc 293

<210> 397  
<211> 298  
<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_77680\_13

<400> 397  
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cccccttaaa atttggcttt caaaaagtac ttttttcaaa atacattaat tttaacatcg 120  
gctagaaaatg atttttgaaa tttttttttttaacacttc cagaaaaatat ttctgaaat 180  
gtgttgaat tttttatctt gtgttggaaa gtagttcca aaaaagagat acttgtagaa 240  
gaagaagaat atatataatata agtatttagta aatctgggg gtgtaaataa cagttgtt 298

<210> 398  
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<223> Seq ID: 515002\_region\_G2\_77693\_12  
<400> 398

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gcttagaaat atttttgaaa tattaaaat ttaacacttc cagaaaatat tttctgaaaat 180  
gtgtgaaat ttttaatct gtttgaaaa gtagttcca aaaaagagat acttgtagaa 240  
gaagaagaat atatataat agtatttagta aatctggggat gtgtaaataa cagttgtt 298

<210> 399  
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<212> DNA  
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<223> Seq ID: 515002\_region\_G2\_97392\_14  
<400> 399

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aaatgggttt tggggatttc acttacttaa tatgatttag aaacattattt attattttt 120  
ctgtaaaaaaaaaa aaagaaatatt tattattttt acaattttt catcctttt atatactttt 180  
ttaaaaacga aaaaaaaaaaa tattgagttt cgtttatgtat taagaaaaat gtttcataat 240  
taaaaaattaa aaactagtgt ctgcatcatc acattactaa acttaggttgc ctgatgtcac 300

<210> 400  
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<223> Seq ID: 515002\_region\_G2\_97359\_15  
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ctgtaaaaaaaaaa aaagaaatatt tattattttt acaattttt catcctttt atatactttt 180  
ttaaaaacga aaaaaaaaaaa tattgagttt cgtttatgtat taagaaaaat gtttcataat 240  
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<210> 401  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_289711\_11\_Forward\_Primer

<400> 401

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25

<210> 402

<211> 25

<212> DNA

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<223> Seq ID: 240017\_region\_G3\_289711\_11\_Reverse\_Primer

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<210> 403

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_236585\_14\_Forward\_Primer

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<210> 404

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_236585\_14\_Reverse\_Primer

<400> 404

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<210> 405

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_168772\_13\_Forward\_Primer

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<210> 406  
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<400> 406

aatttcaacc aacagacatt gagtga 26

<210> 407  
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<223> Seq ID: 240017\_region\_G3\_332420\_21\_Forward\_Primer  
  
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gagaatctgc aactgaacca aatga 25

<210> 408  
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<210> 409  
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<223> Seq ID: 240017\_region\_G3\_228126\_18\_Reverse\_Primer  
  
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atggccatgc aagatatacg gagaa 25

<210> 411  
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<223> Seq ID: 240017\_region\_G3\_139723\_11\_Forward\_Primer

<400> 411

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25

<210> 412  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_139723\_11\_Reverse\_Primer

<400> 412

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25

<210> 413  
<211> 27  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_280585\_14\_Forward\_Primer

<400> 413

tttacaaggtg catcatttaa cttctca

27

<210> 414  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_280585\_14\_Reverse\_Primer

<400> 414

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25

<210> 415  
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<223> Seq ID: 240017\_region\_G3\_70509\_14\_Forward\_Primer

<400> 415

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25

<210> 416  
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<400> 417  
  
aaacccaaaca taattccaaac ttcaa 25

<210> 418  
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agcccttcca caaactagag cgtat 25  
  
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<400> 420  
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<210> 421  
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<223> Seq ID: 240017\_region\_G3\_\_117057\_11\_Forward\_Primer

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<210> 422  
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<223> Seq ID: 240017\_region\_G3\_\_117057\_11\_Reverse\_Primer

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<210> 423  
<211> 25  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_23092\_13\_Forward\_Primer

<400> 423  
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<210> 424  
<211> 25  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_\_23092\_13\_Reverse\_Primer

<400> 424  
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<210> 425  
<211> 25  
<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_297741\_14\_Forward\_Primer

<400> 425

tttataaaatc tgtccagcca ccaaa

25

<210> 426

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_297741\_14\_Reverse\_Primer

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<210> 427

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_206502\_14\_Forward\_Primer

<400> 427

agaagaagac gacgacatcg aagag

25

<210> 428

<211> 20

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_206502\_14\_Reverse\_Primer

<400> 428

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<210> 429

<211> 25

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_221223\_13\_Forward\_Primer

<400> 429

ccagagtctt gtaagaaaagc catca

25

<210> 430

<211> 25

<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_221223\_13\_Reverse\_Primer

<400> 430

cagctgacac atgtccattc tttct

25

<210> 431  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_169084\_14\_Forward\_Primer

<400> 431

tttgcttcaa taaatgtgca cagaa

25

<210> 432  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_169084\_14\_Reverse\_Primer

<400> 432

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24

<210> 433  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_94891\_14\_Forward\_Primer

<400> 433

catcaacaaa tcacacacac acaca

25

<210> 434  
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<223> Seq ID: 240017\_region\_G3\_94891\_14\_Reverse\_Primer

<400> 434

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25

<210> 435  
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<223> Seq ID: 240017\_region\_G3\_7439\_12\_Forward\_Primer

<400> 435

ggtgctgttag tgcttgaac agttg

25

<210> 436  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_7439\_12\_Reverse\_Primer

<400> 436

accaatgtaa atgcgaacac agaaa

25

<210> 437  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_281852\_61\_Forward\_Primer

<400> 437

aaccagagga aacagggagt cattt

25

<210> 438  
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<223> Seq ID: 240017\_region\_G3\_281852\_61\_Reverse\_Primer

<400> 438

cagtctttca ttaatcctcc gtctgt

25

<210> 439  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_46583\_12\_Forward\_Primer

<400> 439

gttaacaaatt ctgaaccctg catgt

25

<210> 440  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_46583\_12\_Reverse\_Primer

<400> 440

tgttgtgcaa gttgaagaat gtttt

25

<210> 441  
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<212> DNA  
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<223> Seq ID: 240017\_region\_G3\_306835\_13\_Forward\_Primer

<400> 441

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&lt;223&gt; Seq ID: 240017\_region\_G3\_214106\_13\_Forward\_Primer

&lt;400&gt; 479

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&lt;210&gt; 480

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Seq ID: 240017\_region\_G3\_214106\_13\_Reverse\_Primer

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&lt;211&gt; 25

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&lt;213&gt; Glycine max

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&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Seq ID: 240017\_region\_G3\_149013\_12\_Reverse\_Primer

&lt;400&gt; 482

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&lt;212&gt; DNA

&lt;213&gt; Glycine max

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&lt;210&gt; 649

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Glycine max

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22

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21

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&lt;210&gt; 848

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Seq ID: 318013\_region\_A3\_163547\_18\_Reverse\_Primer\_Seq

&lt;400&gt; 848

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&lt;210&gt; 849

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Seq ID: 318013\_region\_A3\_417867\_15\_Forward\_Primer\_Seq

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27

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<223> Seq ID: 515002\_region\_G2\_9969\_28\_Reverse\_Primer

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24

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Gln	Lys	Arg	Ser	Thr	Met	Asn	Met	Met	Ile	Thr	Thr	Ile	Leu	Leu	Arg
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Phe	Trp	Asp	Arg	Tyr	Asp	Met	Asn	Cys	Asp	Tyr	Thr	Thr	Asn	Ser	Tyr
					35			40		45					

Glu	Pro	Gly	Thr	Gln	Leu	Ala	Pro	Ser	Ser	Pro	Arg	Asp	Thr	Ser	Val
					50			55		60					

Lys	Leu	Gly	Asp	Ala	Ser	Ser	Leu	Val	Val	Leu	Pro	Ser	Cys	Val	Arg
					65			70		75		80			

Pro	Val	Leu	Cys	Glu	Asp	Glu	Gly	Trp	Asp	Gly	Val	Val	Val	Thr	Ala
					85				90		95				

Ser	Asn	Leu	Leu	Ala	Leu	Glu	Ala	Phe	Lys	Gln	Glu	Leu	Val	Asp	Pro
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Glu	Gly	Phe	Leu	Arg	Ser	Trp	Asn	Asp	Ser	Gly	Tyr	Gly	Ala	Cys	Ser
					115			120		125					

Gly	Gly	Trp	Val	Gly	Ile	Lys	Cys	Ala	Lys	Gly	Gln	Val	Ile	Val	Ile
					130			135		140					

Gln	Leu	Pro	Trp	Lys	Gly	Leu	Arg	Gly	Ile	Thr	Asp	Lys	Ile	Gly
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Gln	Leu	Gln	Gly	Leu	Arg	Lys	Leu	Ser	Leu	His	Asp	Asn	Gln	Ile	Gly
					165			170		175					

Gly	Ser	Ile	Pro	Ser	Thr	Leu	Gly	Leu	Leu	Pro	Asn	Leu	Arg	Gly	Val
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Gln	Leu	Phe	Asn	Asn	Arg	Leu	Thr	Gly	Ser	Ile	Pro	Leu	Ser	Leu	Gly
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Phe	Cys	Pro	Leu	Leu	Gln	Ser	Leu	Asp	Leu	Ser	Asn	Asn	Leu	Leu	Thr
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Gly	Ala	Ile	Pro	Tyr	Ser	Leu	Ala	Asn	Ser	Thr	Lys	Leu	Tyr	Trp	Leu
					225			230		235		240			

Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr
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His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser			
260	265	270	
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe			
275	280	285	
Arg Leu Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val			
290	295	300	
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser			
305	310	315	320
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser			
325	330	335	
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu			
340	345	350	
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu			
355	360	365	
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg			
370	375	380	
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile			
385	390	395	400
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser			
405	410	415	
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg			
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Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val			
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Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn			
450	455	460	
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala			
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Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His			
485	490	495	
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly			
500	505	510	
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys			
515	520	525	
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr			
530	535	540	
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val			
545	550	555	560

Ala	Gly	Gly	Asp	Val	Glu	Ala	Gly	Gly	Glu	Ala	Gly	Gly	Lys	Leu	Val	
						565				570				575		
His	Phe	Asp	Gly	Pro	Met	Ala	Phe	Thr	Ala	Asp	Asp	Asp	Leu	Leu	Cys	Ala
						580				585				590		
Thr	Ala	Glu	Ile	Met	Gly	Lys	Ser	Thr	Tyr	Gly	Thr	Val	Tyr	Lys	Ala	
						595				600				605		
Ile	Leu	Glu	Asp	Gly	Ser	Gln	Val	Ala	Val	Lys	Arg	Leu	Arg	Glu	Lys	
						610				615				620		
Ile	Thr	Lys	Gly	His	Arg	Glu	Phe	Glu	Ser	Glu	Val	Ser	Val	Leu	Gly	
						625				630				635		
Lys	Ile	Arg	His	Pro	Asn	Val	Leu	Ala	Leu	Arg	Ala	Tyr	Tyr	Leu	Gly	
						645				650				655		
Pro	Lys	Gly	Glu	Lys	Leu	Leu	Val	Phe	Asp	Tyr	Met	Ser	Lys	Gly	Ser	
						660				665				670		
Leu	Ala	Ser	Phe	Leu	His	Gly	Gly	Gly	Thr	Glu	Thr	Phe	Ile	Asp	Trp	
						675				680				685		
Pro	Thr	Arg	Met	Lys	Ile	Ala	Gln	Asp	Leu	Ala	Arg	Gly	Leu	Phe	Cys	
						690				695				700		
Leu	His	Ser	Gln	Glu	Asn	Ile	Ile	His	Gly	Asn	Leu	Thr	Ser	Ser	Asn	
						705				710				715		
Val	Leu	Leu	Asp	Glu	Asn	Thr	Asn	Ala	Lys	Ile	Ala	Asp	Phe	Gly	Leu	
						725				730				735		
Ser	Arg	Leu	Met	Ser	Thr	Ala	Ala	Asn	Ser	Asn	Val	Ile	Ala	Thr	Ala	
						740				745				750		
Gly	Ala	Leu	Gly	Tyx	Arg	Ala	Pro	Glu	Leu	Ser	Lys	Leu	Lys	Lys	Ala	
						755				760				765		
Asn	Thr	Lys	Thr	Asp	Ile	Tyr	Ser	Leu	Gly	Val	Ile	Leu	Leu	Glu	Leu	
						770				775				780		
Leu	Thr	Arg	Lys	Ser	Pro	Gly	Val	Ser	Met	Asn	Gly	Leu	Asp	Leu	Pro	
						785				790				795		
Gln	Trp	Val	Ala	Ser	Val	Val	Lys	Glu	Glu	Trp	Thr	Asn	Glu	Val	Phe	
						805				810				815		
Asp	Ala	Asp	Leu	Met	Arg	Asp	Ala	Ser	Thr	Val	Gly	Asp	Glu	Leu	Leu	
						820				825				830		
Asn	Thr	Leu	Lys	Leu	Ala	Leu	His	Cys	Val	Asp	Pro	Ser	Pro	Ser	Ala	
						835				840				845		
Arg	Pro	Glu	Val	His	Gln	Val	Gln	Gln	Leu	Glu	Glu	Ile	Arg	Pro		
						850				855				860		

Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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<211>	854
<212>	PRT
<213>	Glycine max

<223> Seq ID: 240017\_region\_G3

<400> 1098

Met Val Val Ala Val Glu Lys Thr Asn Leu Thr Ser Gln Ser Gln Cys			
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Phe Asn Arg Val Ser Asp Lys Lys Lys Glu Arg Cys Lys Thr His Met		
20	25	30

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110

Cys Ala Lys Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe			
225	230	235	240

Leu Ser Leu Gln Asn Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp  
 245 250 255  
 Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu  
 260 265 270  
 Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu  
 275 280 285  
 Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala  
 290 295 300  
 Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile  
 305 310 315 320  
 Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu  
 325 330 335  
 Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln  
 340 345 350  
 Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu  
 355 360 365  
 Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile  
 370 375 380  
 Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu  
 385 390 395 400  
 Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val  
 405 410 415  
 Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys  
 420 425 430  
 Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser  
 435 440 445  
 Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala  
 450 455 460  
 Pro Pro Pro Glu Val Ser Lys His His His Arg Lys Leu Ser Thr  
 465 470 475 480  
 Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile  
 485 490 495  
 Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr  
 500 505 510  
 Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met  
 515 520 525  
 Arg Thr Glu Lys Gly Val Pro Pro Val Ala Gly Gly Asp Val Glu Ala  
 530 535 540  
 Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala

545	550	555	560
Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys			
565	570	575	
Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln			
580	585	590	
Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu			
595	600	605	
Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val			
610	615	620	
Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu			
625	630	635	640
Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly			
645	650	655	
Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala			
660	665	670	
Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile			
675	680	685	
Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr			
690	695	700	
Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala			
705	710	715	720
Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala			
725	730	735	
Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr			
740	745	750	
Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly			
755	760	765	
Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val			
770	775	780	
Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp			
785	790	795	800
Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu			
805	810	815	
His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu Val His Gln Val			
820	825	830	
Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser			
835	840	845	
Pro Gly Asp Asp Ile Val			
850			

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<211> 894  
<212> PRT  
<213> Glycine max

<223> Seq ID: 318013\_region\_A3

<400> 1099

Met Ser Asn Phe Leu Lys Ser Leu Thr Pro Pro Pro Ser Gly Trp Ser  
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Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile Gln Cys Asp Ser Ser  
20 25 30

Ser His Val Thr Ser Ile Ser Leu Ala Ser His Ser Leu Thr Gly Thr  
35 40 45

Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu  
50 55 60

Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser  
65 70 75 80

Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn Phe Ser Ser Val Ser  
85 90 95

Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly  
100 105 110

Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser  
115 120 125

Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly  
130 135 140

Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg  
145 150 155 160

Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala  
165 170 175

Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu  
180 185 190

Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser Ala Leu Asn Gln Ser  
195 200 205

Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile Pro Asp Leu Ser Gln  
210 215 220

Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp Asn Gln Leu Thr Gly  
225 230 235 240

Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser Leu Lys Lys Val Ser  
245 250 255

Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro Val Phe Gly Lys Gly  
 260 265 270  
 Val Asn Val Thr Leu Asp Gly Ile Asn Ser Phe Cys Leu Asp Thr Pro  
 275 280 285  
 Gly Asn Cys Asp Pro Arg Val Met Val Leu Leu Gln Ile Ala Glu Ala  
 290 295 300  
 Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp Lys Gly Asn Asp Pro  
 305 310 315 320  
 Cys Asp Gly Trp Asn Tyr Val Val Cys Ala Ala Gly Lys Ile Ile Thr  
 325 330 335  
 Val Asn Phe Glu Lys Gln Gly Leu Gln Gly Thr Ile Ser Pro Ala Phe  
 340 345 350  
 Ala Asn Leu Thr Asp Leu Arg Thr Leu Phe Leu Asn Gly Asn Asn Leu  
 355 360 365  
 Ile Gly Ser Ile Pro Asp Ser Leu Ile Thr Leu Pro Gln Leu Gln Thr  
 370 375 380  
 Leu Asp Val Ser Asp Asn Asn Leu Ser Gly Leu Val Pro Lys Phe Pro  
 385 390 395 400  
 Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala Leu Leu Gly Lys Pro  
 405 410 415  
 Leu Ser Pro Gly Gly Pro Ser Gly Thr Thr Pro Ser Gly Ser Ser  
 420 425 430  
 Thr Gly Gly Ser Gly Gly Glu Ser Ser Lys Gly Asn Ser Ser Val Ser  
 435 440 445  
 Pro Gly Trp Ile Ala Gly Ile Val Val Ile Val Leu Phe Phe Ile Ala  
 450 455 460  
 Val Val Leu Phe Val Ser Trp Lys Cys Phe Val Asn Lys Leu Gln Gly  
 465 470 475 480  
 Lys Phe Ser Arg Val Lys Gly His Glu Asn Gly Lys Gly Phe Lys  
 485 490 495  
 Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly Gly Val Pro Val Glu  
 500 505 510  
 Leu Gln Ser Gln Ser Ser Gly Asp Arg Ser Asp Leu His Ala Leu Asp  
 515 520 525  
 Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln Val Thr Asn Asn Phe  
 530 535 540  
 Ser Glu Glu Asn Ile Leu Gly Arg Gly Phe Gly Val Val Tyr Lys  
 545 550 555 560

Gly Val Leu His Asp Gly Thr Lys Ile Ala Val Lys Arg Met Glu Ser  
 565 570 575

Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe Glu Ala Glu Ile Ala  
 580 585 590

Leu Leu Ser Lys Val Arg His Arg His Leu Val Ala Leu Leu Gly Tyr  
 595 600 605

Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr Glu Tyr Met Pro Gln  
 610 615 620

Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln Glu His Gly Tyr Ala  
 625 630 635 640

Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala Leu Asp Val Ala Arg  
 645 650 655

Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln Ser Phe Ile His Arg  
 660 665 670

Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp Asp Met Arg Ala Lys  
 675 680 685

Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro Asp Gly Lys Tyr Ser  
 690 695 700

Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr Leu Ala Pro Glu Tyr  
 705 710 715 720

Ala Ala Thr Gly Arg Val Thr Thr Lys Val Asp Val Tyr Ala Phe Gly  
 725 730 735

Val Val Leu Met Glu Leu Ile Thr Gly Arg Lys Ala Leu Asp Asp Thr  
 740 745 750

Val Pro Asp Glu Arg Ser His Leu Val Thr Trp Phe Arg Arg Val Leu  
 755 760 765

Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile Asp Gln Ile Leu Asn Pro  
 770 775 780

Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr Val Ala Glu Leu Ala Gly  
 785 790 795 800

His Cys Thr Ala Arg Glu Pro Tyr Gln Arg Pro Asp Met Gly His Ala  
 805 810 815

Val Asn Val Leu Val Pro Leu Val Glu Gln Trp Lys Pro Thr Ser His  
 820 825 830

Asp Glu Glu Glu Asp Gly Ser Gly Asp Leu His Met Ser Leu  
 835 840 845

Pro Gln Ala Leu Arg Arg Trp Gln Ala Asn Glu Gly Thr Ser Ser Ile  
 850 855 860

Phe Asn Asp Ile Ser Ile Ser Gln Thr Gln Ser Ser Ile Ser Ser Lys

865	870	875	880
Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser Met Asp Cys Arg			
885	890		
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Met Asp Ala Cys Gly Met Ser Ser Ser Asn Ser Lys His Val Val Asp			
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Gln Lys Arg Ser Thr Met Asn Met Met Ile Thr Thr Ile Leu Leu Arg			
20	25	30	
Phe Trp Asp Arg Tyr Asp Met Asn Cys Asp Tyr Thr Thr Asn Ser Tyr			
35	40	45	
Glu Pro Gly Thr Gln Leu Ala Pro Ser Ser Pro Arg Asp Thr Ser Val			
50	55	60	
Lys Leu Gly Asp Ala Ser Ser Leu Val Val Leu Pro Ser Cys Val Arg			
65	70	75	80
Pro Val Leu Cys Glu Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala			
85	90	95	
Ser Asn Leu Leu Ala Leu Glu Ala Phe Lys Gln Glu Leu Val Asp Pro			
100	105	110	
Glu Gly Phe Leu Arg Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser			
115	120	125	
Gly Gly Trp Val Gly Ile Lys Cys Ala Lys Gly Gln Val Ile Val Ile			
130	135	140	
Gln Leu Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly			
145	150	155	160
Gln Leu Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly			
165	170	175	
Gly Ser Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val			
180	185	190	
Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly			
195	200	205	
Phe Cys Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr			
210	215	220	
Gly Ala Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu			

225	230	235	240
Asn Leu Ser Phe Asn Ser Phe Ser Gly Pro Leu Pro Ala Ser Leu Thr			
245	250	255	
His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser			
260	265	270	
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe			
275	280	285	
Arg Leu Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val			
290	295	300	
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser			
305	310	315	320
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser			
325	330	335	
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu			
340	345	350	
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu			
355	360	365	
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg			
370	375	380	
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile			
385	390	395	400
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser			
405	410	415	
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg			
420	425	430	
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val			
435	440	445	
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn			
450	455	460	
Ile Gln Leu Cys Gly Tyx Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala			
465	470	475	480
Pro Ser Gln Gly Val Ile Ala Pro Pro Glu Val Ser Lys His His			
485	490	495	
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly			
500	505	510	
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys			
515	520	525	
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr			
530	535	540	

Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val  
545 550 555 560

Ala Gly Gly Asp Val Glu Ala Gly Gly Glu Ala Gly Gly Lys Leu Val  
565 570 575

His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala  
580 585 590

Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala  
595 600 605

Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys  
610 615 620

Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly  
625 630 635 640

Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly  
645 650 655

Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser  
660 665 670

Leu Ala Ser Phe Leu His Gly Gly Gly Thr Glu Thr Phe Ile Asp Trp  
675 680 685

Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys  
690 695 700

Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn  
705 710 715 720

Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu  
725 730 735

Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala  
740 745 750

Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala  
755 760 765

Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu  
 . 770 775 780

Leu Thr Arg Lys Ser Pro Gly Val Ser Met Asn Gly Leu Asp Leu Pro  
785 790 795 800

Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe  
805 810 815

Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu  
820 825 830

Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala  
835 840 845

Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro		
850	855	860

Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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<223> Seq ID: rhg1\_A3244\_amplicon

<400> 1101

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Phe Asn Arg Val Ser Asp Lys Lys Lys Glu Arg Cys Lys Thr His Met		
20	25	30

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110

Cys Ala Lys Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe  
 225 230 235 240  
 Leu Ser Leu Gln Asn Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp  
 245 250 255  
 Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu  
 260 265 270  
 Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu  
 275 280 285  
 Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala  
 290 295 300  
 Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile  
 305 310 315 320  
 Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu  
 325 330 335  
 Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln  
 340 345 350  
 Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu  
 355 360 365  
 Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile  
 370 375 380  
 Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu  
 385 390 395 400  
 Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val  
 405 410 415  
 Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys  
 420 425 430  
 Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser  
 435 440 445  
 Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala  
 450 455 460  
 Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu Ser Thr  
 465 470 475 480  
 Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile  
 485 490 495  
 Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr  
 500 505 510  
 Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met  
 515 520 525  
 Arg Thr Glu Lys Gly Val Pro Pro Val Ala Gly Asp Val Glu Ala

530	535	540
Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala		
545	550	555
Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys		
565	570	575
Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln		
580	585	590
Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu		
595	600	605
Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val		
610	615	620
Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu		
625	630	635
640		
Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly		
645	650	655
Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala		
660	665	670
Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile		
675	680	685
Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr		
690	695	700
Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala		
705	710	715
720		
Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala		
725	730	735
Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr		
740	745	750
Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly		
755	760	765
Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val		
770	775	780
Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp		
785	790	795
800		
Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu		
805	810	815
His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu Val His Gln Val		
820	825	830
Ley Gln Gln Ley Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser		
835	840	845

Pro Gly Asp Asp Ile Val  
850

<210>	1102		
<211>	877		
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<213>	Glycine max		
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<400>	1102		
Met Asp Ala Cys Gly Met Ser Ser Ser Asn Ser Lys His Val Val Asp			
1	5	10	15
Gln Lys Arg Ser Thr Met Asn Met Met Ile Thr Thr Ile Leu Leu Arg			
20	25	30	
Phe Trp Asp Arg Tyr Asp Met Asn Cys Asp Tyr Thr Thr Asn Ser Tyr			
35	40	45	
Glu Pro Gly Thr Gln Leu Ala Pro Ser Ser Pro Arg Asp Thr Ser Val			
50	55	60	
Lys Leu Gly Asp Ala Ser Ser Leu Val Val Leu Pro Ser Cys Val Arg			
65	70	75	80
Pro Val Leu Cys Glu Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala			
85	90	95	
Ser Asn Leu Leu Ala Leu Glu Ala Phe Lys Gln Glu Leu Ala Asp Pro			
100	. 105	110	
Glu Gly Phe Leu Arg Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser			
115	120	125	
Gly Gly Trp Val Gly Ile Lys Cys Ala Gln Gly Gln Val Ile Val Ile			
130	135	140	
Gln Leu Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly			
145	150	155	160
Gln Leu Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly			
165	170	175	
Gly Ser Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val			
180	185	190	
Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly			
195	200	205	
Phe Cys Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr			
210	215	220	
Gly Ala Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu			
225	230	235	240

Asn Leu Ser Phe Asn Ser Phe Ser Gly Pro Leu Pro Ala Ser Leu Thr			
245	250	255	
His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser			
260	265	270	
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe			
275	280	285	
Arg Leu Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val			
290	295	300	
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser			
305	310	315	320
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser			
325	330	335	
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu			
340	345	350	
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu			
355	360	365	
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg			
370	375	380	
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile			
385	390	395	400
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser			
405	410	415	
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg			
420	425	430	
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val			
435	440	445	
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn			
450	455	460	
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala			
465	470	475	480
Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His			
485	490	495	
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly			
500	505	510	
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys			
515	520	525	
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr			
530	535	540	

Glu	Gly	Arg	Ala	Ala	Thr	Met	Arg	Thr	Glu	Lys	Gly	Val	Pro	Pro	Val
545					550				555				560		
Ala Gly Gly Asp Val Glu Ala Gly Gly Glu Ala Gly Gly Lys Leu Val															
					565				570				575		
His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala															
					580				585				590		
Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala															
					595				600				605		
Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys															
					610				615				620		
Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly															
					625				630				635		
Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly															
					645				650				655		
Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser															
					660				665				670		
Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp															
					675				680				685		
Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys															
					690				695				700		
Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn															
					705				710				715		
720															
Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu															
					725				730				735		
Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala															
					740				745				750		
Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala															
					755				760				765		
Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu															
					770				775				780		
Leu Thr Arg Lys Ser Pro Gly Val Ser Met Asn Gly Leu Asp Leu Pro															
					785				790				795		
800															
Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe															
					805				810				815		
Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu															
					820				825				830		
Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala															
					835				840				845		
Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro															

850 855 860

Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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<211> 854  
<212> PRT  
<213> Glycine max

&lt;223&gt; Seq ID: rhg1\_peking\_amplicon

&lt;400&gt; 1103

Met Val Val Ala Val Glu Lys Thr Asn Leu Thr Ser Gln Ser Gln Cys			
1	5	10	15

Phe Asn Arg Val Ser Asp Lys Lys Glu Arg Cys Lys Thr His Met		
20	25	30

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Ala Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110

Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe

225	230	235	240
Leu Ser Leu Gln Asn Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp			
245	250	255	
Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu			
260	265	270	
Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu			
275	280	285	
Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala			
290	295	300	
Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile			
305	310	315	320
Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu			
325	330	335	
Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln			
340	345	350	
Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu			
355	360	365	
Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile			
370	375	380	
Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu			
385	390	395	400
Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val			
405	410	415	
Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys			
420	425	430	
Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser			
435	440	445	
Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala			
450	455	460	
Pro Pro Pro Glu Val Ser Lys His His His Arg Lys Leu Ser Thr			
465	470	475	480
Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile			
485	490	495	
Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr			
500	505	510	
Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met			
515	520	525	
Arg Thr Glu Lys Gly Val Pro Pro Val Ala Gly Gly Asp Val Glu Ala			
530	535	540	

Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala  
 545 550 555 560  
 Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys  
 565 570 575  
 Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln  
 580 585 590  
 Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu  
 595 600 605  
 Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val  
 610 615 620  
 Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu  
 625 630 635 640  
 Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly  
 645 650 655  
 Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala  
 660 665 670  
 Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile  
 675 680 685  
 Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr  
 690 695 700  
 Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala  
 705 710 715 720  
 Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala  
 725 730 735  
 Pro Glu Leu Ser Lys Leu Lys Ala Asn Thr Lys Thr Asp Ile Tyr  
 740 745 750  
 Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly  
 755 760 765  
 Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val  
 770 775 780  
 Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp  
 785 790 795 800  
 Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu  
 805 810 815  
 His Cys Val Asp Pro Ser Pro Ala Arg Pro Glu Val His Gln Val  
 820 825 830  
 Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser  
 835 840 845

Pro Gly Asp Asp Ile Val  
850

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<213> Glycine max

<223> Seq ID: rhg1\_toyosuzu\_amplicon

<400> 1104

Met Asp Ala Cys Gly Met Ser Ser Ser Asn Ser Lys His Val Val Asp  
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Gln Lys Arg Ser Thr Met Asn Met Met Ile Thr Thr Ile Leu Leu Arg  
20 25 30

Phe Trp Asp Arg Tyr Asp Met Asn Cys Asp Tyr Thr Thr Asn Ser Tyr  
35 40 45

Glu Pro Gly Thr Gln Leu Ala Pro Ser Ser Pro Arg Asp Thr Ser Val  
50 55 60

Lys Leu Gly Asp Ala Ser Ser Leu Val Val Leu Pro Ser Cys Val Arg  
65 70 75 80

Pro Val Leu Cys Glu Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala  
85 90 95

Ser Asn Leu Leu Ala Leu Glu Ala Phe Lys Gln Glu Leu Val Asp Pro  
100 105 110

Glu Gly Phe Leu Arg Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser  
115 120 125

Gly Gly Trp Val Gly Ile Lys Cys Ala Gln Gly Gln Val Ile Val Ile  
130 135 140

Gln Leu Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly  
145 150 155 160

Gln Leu Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly  
165 170 175

Gly Ser Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val  
180 185 190

Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly  
195 200 205

Phe Cys Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr  
210 215 220

Gly Ala Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu  
225 230 235 240

Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr
						245				250				255	
His	Ser	Phe	Ser	Leu	Thr	Phe	Leu	Ser	Leu	Gln	Asn	Asn	Asn	Leu	Ser
				260				265						270	
Gly	Ser	Leu	Pro	Asn	Ser	Trp	Gly	Gly	Asn	Ser	Lys	Asn	Gly	Phe	Phe
				275				280						285	
Arg	Leu	Gln	Asn	Leu	Ile	Leu	Asp	His	Asn	Phe	Phe	Thr	Gly	Asp	Val
				290				295						300	
Pro	Ala	Ser	Leu	Gly	Ser	Leu	Arg	Glu	Leu	Asn	Glu	Ile	Ser	Leu	Ser
	305					310				315				320	
His	Asn	Lys	Phe	Ser	Gly	Ala	Ile	Pro	Asn	Glu	Ile	Gly	Thr	Leu	Ser
				325					330					335	
Arg	Leu	Lys	Thr	Leu	Asp	Ile	Ser	Asn	Asn	Ala	Leu	Asn	Gly	Asn	Leu
				340					345					350	
Pro	Ala	Thr	Leu	Ser	Asn	Leu	Ser	Ser	Leu	Thr	Leu	Leu	Asn	Ala	Glu
				355				360				365			
Asn	Asn	Leu	Leu	Asp	Asn	Gln	Ile	Pro	Gln	Ser	Leu	Gly	Arg	Leu	Arg
				370					375					380	
Asn	Leu	Ser	Val	Leu	Ile	Leu	Ser	Arg	Asn	Gln	Phe	Ser	Gly	His	Ile
				385				390			395			400	
Pro	Ser	Ser	Ile	Ala	Asn	Ile	Ser	Ser	Leu	Arg	Gln	Leu	Asp	Leu	Ser
					405					410				415	
Leu	Asn	Asn	Phe	Ser	Gly	Glu	Ile	Pro	Val	Ser	Phe	Asp	Ser	Gln	Arg
				420					425					430	
Ser	Leu	Asn	Leu	Phe	Asn	Val	Ser	Tyr	Asn	Ser	Leu	Ser	Gly	Ser	Val
				435					440					445	
Pro	Pro	Leu	Leu	Ala	Lys	Lys	Phe	Asn	Ser	Ser	Ser	Phe	Val	Gly	Asn
				450					455					460	
Ile	Gln	Leu	Cys	Gly	Tyr	Ser	Pro	Ser	Thr	Pro	Cys	Leu	Ser	Gln	Ala
				465					470			475			480
Pro	Ser	Gln	Gly	Val	Ile	Ala	Pro	Pro	Glu	Val	Ser	Lys	His	His	
					485					490				495	
His	His	Arg	Lys	Leu	Ser	Thr	Lys	Asp	Ile	Ile	Leu	Ile	Val	Ala	Gly
				500					505					510	
Val	Leu	Leu	Val	Val	Leu	Ile	Ile	Leu	Cys	Cys	Val	Leu	Leu	Phe	Cys
				515					520					525	
Leu	Ile	Arg	Lys	Arg	Ser	Thr	Ser	Lys	Ala	Gly	Asn	Gly	Gln	Ala	Thr
				530					535					540	
Glu	Gly	Arg	Ala	Ala	Thr	Met	Arg	Thr	Glu	Lys	Gly	Val	Pro	Pro	Val

545	550	555	560
Ala Gly Gly Asp Val Glu Ala Gly Gly Glu Ala Gly Gly Lys Leu Val			
565	570	575	
His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala			
580	585	590	
Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala			
595	600	605	
Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys			
610	615	620	
Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly			
625	630	635	640
Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly			
645	650	655	
Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser			
660	665	670	
Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp			
675	680	685	
Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys			
690	695	700	
Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn			
705	710	715	720
Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu			
725	730	735	
Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala			
740	745	750	
Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala			
755	760	765	
Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu			
770	775	780	
Leu Thr Arg Lys Ser Pro Gly Val Ser Met Asn Gly Leu Asp Leu Pro			
785	790	795	800
Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe			
805	810	815	
Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu			
820	825	830	
Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala			
835	840	845	
Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro			
850	855	860	

Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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<211>	854
<212>	PRT
<213>	Glycine max

<223> Seq ID: rhg1\_toyosuzu\_amplicon

<400> 1105

Met Val Val Ala Val Glu Lys Thr Asn Leu Thr Ser Gln Ser Gln Cys			
1	5	10	15

Phe Asn Arg Val Ser Asp Lys Lys Lys Glu Arg Cys Lys Thr His Met		
20	25	30

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110

Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe

225	230	235	240
Leu Ser Leu Gln Asn Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp			
245	250	255	
Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu			
260	265	270	
Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu			
275	280	285	
Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala			
290	295	300	
Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile			
305	310	315	320
Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu			
325	330	335	
Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln			
340	345	350	
Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu			
355	360	365	
Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile			
370	375	380	
Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu			
385	390	395	400
Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val			
405	410	415	
Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys			
420	425	430	
Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser			
435	440	445	
Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala			
450	455	460	
Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu Ser Thr			
465	470	475	480
Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile			
485	490	495	
Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr			
500	505	510	
Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met			
515	520	525	
Arg Thr Glu Lys Gly Val Pro Pro Val Ala Gly Gly Asp Val Glu Ala			
530	535	540	

Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala  
 545 550 555 560  
 Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys  
 565 570 575  
 Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln  
 580 585 590  
 Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu  
 595 600 605  
 Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val  
 610 615 620  
 Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu  
 625 630 635 640  
 Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly  
 645 650 655  
 Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala  
 660 665 670  
 Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile  
 675 680 685  
 Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Asp Glu Asn Thr  
 690 695 700  
 Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala  
 705 710 715 720  
 Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala  
 725 730 735  
 Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr  
 740 745 750  
 Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly  
 755 760 765  
 Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val  
 770 775 780  
 Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp  
 785 790 795 800  
 Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu  
 805 810 815  
 His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu Val His Gln Val  
 820 825 830  
 Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser  
 835 840 845

Pro Gly Asp Asp Ile Val  
850

<210> 1106  
<211> 877  
<212> PRT  
<213> Glycine max

<223> Seq ID: rhg1\_will\_amplicon

<400> 1106

Met Asp Ala Cys Gly Met Ser Ser Ser Asn Ser Lys His Val Val Asp  
1 5 10 15

Gln Lys Arg Ser Thr Met Asn Met Met Ile Thr Thr Ile Leu Leu Arg  
20 25 30

Phe Trp Asp Arg Tyr Asp Met Asn Cys Asp Tyr Thr Thr Asn Ser Tyr  
35 40 45

Glu Pro Gly Thr Gln Leu Ala Pro Ser Ser Pro Arg Asp Thr Ser Val  
50 55 60

Lys Leu Gly Asp Ala Ser Ser Leu Val Val Leu Pro Ser Cys Val Arg  
65 70 75 80

Pro Val Leu Cys Glu Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala  
85 90 95

Ser Asn Leu Ala Leu Glu Ala Phe Lys Gln Glu Leu Val Asp Pro  
100 105 110

Glu Gly Phe Leu Arg Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser  
115 120 125

Gly Gly Trp Val Gly Ile Lys Cys Ala Lys Gly Gln Val Ile Val Ile  
130 135 140

Gln Leu Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly  
145 150 155 160

Gln Leu Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly  
165 170 175

Gly Ser Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val  
180 185 190

Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly  
195 200 205

Phe Cys Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr  
210 215 220

Gly Ala Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu  
225 230 235 240

Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr
						245				250					255
His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser															
						260		265							270
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe															
						275		280							285
Arg Leu Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val															
						290		295							300
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser															
						305		310		315					320
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser															
						325		330		335					335
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu															
						340		345							350
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu															
						355		360		365					
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg															
						370		375		380					
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile															
						385		390		395					400
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser															
						405		410		415					
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg															
						420		425		430					
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val															
						435		440		445					
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn															
						450		455		460					
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala															
						465		470		475					480
Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His															
						485		490		495					
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly															
						500		505		510					
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys															
						515		520		525					
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr															
						530		535		540					
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val															

545	550	555	560
Ala Gly Gly Asp Val Glu Ala Gly Gly Glu Ala Gly Gly Lys Leu Val			
565	570	575	
His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala			
580	585	590	
Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala			
595	600	605	
Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys			
610	615	620	
Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly			
625	630	635	640
Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly			
645	650	655	
Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser			
660	665	670	
Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp			
675	680	685	
Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys			
690	695	700	
Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn			
705	710	715	720
Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu			
725	730	735	
Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala			
740	745	750	
Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala			
755	760	765	
Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu			
770	775	780	
Leu Thr Arg Lys Ser Pro Gly Val Ser Met Asn Gly Leu Asp Leu Pro			
785	790	795	800
Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe			
805	810	815	
Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu			
820	825	830	
Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala			
835	840	845	
Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro			
850	855	860	

Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
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Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110

Cys Ala Lys Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe			
225	230	235	240

Leu	Ser	Leu	Gln	Asn	Asn	Asn	Leu	Ser	Gly	Ser	Leu	Pro	Asn	Ser	Trp
245							250					255			
Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu															
260				265			270								
Asp	His	Asn	Phe	Phe	Thr	Gly	Asp	Val	Pro	Ala	Ser	Leu	Gly	Ser	Leu
275					280							285			
Arg	Glu	Leu	Asn	Glu	Ile	Ser	Leu	Ser	His	Asn	Lys	Phe	Ser	Gly	Ala
290					295						300				
Ile	Pro	Asn	Glu	Ile	Gly	Thr	Leu	Ser	Arg	Leu	Lys	Thr	Leu	Asp	Ile
305					310				315					320	
Ser	Asn	Asn	Ala	Leu	Asn	Gly	Asn	Leu	Pro	Ala	Thr	Leu	Ser	Asn	Leu
					325				330				335		
Ser	Ser	Leu	Thr	Leu	Leu	Asn	Ala	Glu	Asn	Asn	Leu	Leu	Asp	Asn	Gln
					340			345					350		
Ile	Pro	Gln	Ser	Leu	Gly	Arg	Leu	Arg	Asn	Leu	Ser	Val	Leu	Ile	Leu
					355			360				365			
Ser	Arg	Asn	Gln	Phe	Ser	Gly	His	Ile	Pro	Ser	Ser	Ile	Ala	Asn	Ile
					370			375			380				
Ser	Ser	Leu	Arg	Gln	Leu	Asp	Leu	Ser	Leu	Asn	Asn	Phe	Ser	Gly	Glu
					385			390			395				400
Ile	Pro	Val	Ser	Phe	Asp	Ser	Gln	Arg	Ser	Leu	Asn	Leu	Phe	Asn	Val
					405				410				415		
Ser	Tyr	Asn	Ser	Leu	Ser	Gly	Ser	Val	Pro	Pro	Leu	Leu	Ala	Lys	Lys
					420				425				430		
Phe	Asn	Ser	Ser	Ser	Phe	Val	Gly	Asn	Ile	Gln	Leu	Cys	Gly	Tyr	Ser
					435			440				445			
Pro	Ser	Thr	Pro	Cys	Leu	Ser	Gln	Ala	Pro	Ser	Gln	Gly	Val	Ile	Ala
					450			455				460			
Pro	Pro	Pro	Glu	Val	Ser	Lys	His	His	His	His	Arg	Lys	Leu	Ser	Thr
					465			470			475			480	
Lys	Asp	Ile	Ile	Leu	Ile	Val	Ala	Gly	Val	Leu	Leu	Val	Val	Leu	Ile
					485				490				495		
Ile	Leu	Cys	Cys	Val	Leu	Leu	Phe	Cys	Leu	Ile	Arg	Lys	Arg	Ser	Thr
					500				505				510		
Ser	Lys	Ala	Gly	Asn	Gly	Gln	Ala	Thr	Glu	Gly	Arg	Ala	Ala	Thr	Met
					515				520				525		
Arg	Thr	Glu	Lys	Gly	Val	Pro	Pro	Val	Ala	Gly	Gly	Asp	Val	Glu	Ala
					530				535				540		

Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala  
 545 550 555 560

Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys  
 565 570 575

Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln  
 580 585 590

Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu  
 595 600 605

Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val  
 610 615 620

Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu  
 625 630 635 640

Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly  
 645 650 655

Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala  
 660 665 670

Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile  
 675 680 685

Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr  
 690 695 700

Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala  
 705 710 715 720

Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala  
 725 730 735

Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr  
 740 745 750

Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly  
 755 760 765

Val Ser Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val  
 770 775 780

Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp  
 785 790 795 800

Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu  
 805 810 815

His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu Val His Gln Val  
 820 825 830

Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser  
 835 840 845

Pro Gly Asp Asp Ile Val

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Gln	Lys	Arg	Ser	Thr	Met	Asn	Met	Met	Ile	Thr	Thr	Ile	Leu	Leu	Arg
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Phe	Trp	Asp	Arg	Tyr	Asp	Met	Asn	Cys	Asp	Tyr	Thr	Thr	Asn	Ser	Tyr
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Glu	Pro	Gly	Thr	Gln	Leu	Ala	Pro	Ser	Ser	Pro	Arg	Asp	Thr	Ser	Val
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Lys	Leu	Gly	Asp	Ala	Ser	Ser	Leu	Val	Val	Leu	Pro	Ser	Cys	Val	Arg
					65			70		75			80		
Pro	Val	Leu	Cys	Glu	Asp	Glu	Gly	Trp	Asp	Gly	Val	Val	Val	Thr	Ala
					85				90			95			
Ser	Asn	Leu	Leu	Ala	Leu	Glu	Ala	Phe	Lys	Gln	Glu	Leu	Val	Asp	Pro
					100				105			110			
Glu	Gly	Phe	Leu	Arg	Ser	Trp	Asn	Asp	Ser	Gly	Tyr	Gly	Ala	Cys	Ser
					115				120			125			
Gly	Gly	Trp	Val	Gly	Ile	Lys	Cys	Ala	Lys	Gly	Gln	Val	Ile	Val	Ile
					130			135			140				
Gln	Leu	Pro	Trp	Lys	Gly	Leu	Arg	Gly	Arg	Ile	Thr	Asp	Lys	Ile	Gly
					145			150		155			160		
Gln	Leu	Gln	Gly	Leu	Arg	Lys	Leu	Ser	Leu	His	Asp	Asn	Gln	Ile	Gly
					165				170			175			
Gly	Ser	Ile	Pro	Ser	Thr	Leu	Gly	Leu	Leu	Pro	Asn	Leu	Arg	Gly	Val
					180				185			190			
Gln	Leu	Phe	Asn	Asn	Arg	Leu	Thr	Gly	Ser	Ile	Pro	Leu	Ser	Leu	Gly
					195			200			205				
Phe	Cys	Pro	Leu	Leu	Gln	Ser	Leu	Asp	Leu	Ser	Asn	Asn	Leu	Leu	Thr
					210			215			220				
Gly	Ala	Ile	Pro	Tyr	Ser	Leu	Ala	Asn	Ser	Thr	Lys	Leu	Tyr	Trp	Leu
					225			230		235			240		
Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr

245	250	255
His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser		
260	265	270
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe		
275	280	285
Arg Leu Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val		
290	295	300
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser		
305	310	315
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser		
325	330	335
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu		
340	345	350
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu		
355	360	365
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg		
370	375	380
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile		
385	390	395
400		
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser		
405	410	415
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg		
420	425	430
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val		
435	440	445
450		
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn		
455	460	
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala		
465	470	475
480		
Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His		
485	490	495
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly		
500	505	510
515		
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys		
520	525	
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr		
530	535	540
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val		
545	550	555
560		

Ala	Ala	Gly	Asp	Val	Glu	Ala	Gly	Gly	Glu	Ala	Gly	Gly	Lys	Leu	Val
			565						570				575		
His	Phe	Asp	Gly	Pro	Met	Ala	Phe	Thr	Ala	Asp	Asp	Leu	Leu	Cys	Ala
	580							585					590		
Thr	Ala	Glu	Ile	Met	Gly	Lys	Ser	Thr	Tyr	Gly	Thr	Val	Tyr	Lys	Ala
	595							600				605			
Ile	Leu	Glu	Asp	Gly	Ser	Gln	Val	Ala	Val	Lys	Arg	Leu	Arg	Glu	Lys
	610							615				620			
Ile	Thr	Lys	Gly	His	Arg	Glu	Phe	Glu	Ser	Glu	Val	Ser	Val	Leu	Gly
	625							630				635			640
Lys	Ile	Arg	His	Pro	Asn	Val	Leu	Ala	Leu	Arg	Ala	Tyr	Tyr	Leu	Gly
								645				650			655
Pro	Lys	Gly	Glu	Lys	Leu	Leu	Val	Phe	Asp	Tyr	Met	Ser	Lys	Gly	Ser
								660				665			670
Leu	Ala	Ser	Phe	Leu	His	Gly	Gly	Gly	Thr	Glu	Thr	Phe	Ile	Asp	Trp
								675				680			685
Pro	Thr	Arg	Met	Lys	Ile	Ala	Gln	Asp	Leu	Ala	Arg	Gly	Leu	Phe	Cys
								690				695			700
Leu	His	Ser	Gln	Glu	Asn	Ile	Ile	His	Gly	Asn	Leu	Thr	Ser	Ser	Asn
								705				710			720
Val	Leu	Leu	Asp	Glu	Asn	Thr	Asn	Ala	Lys	Ile	Ala	Asp	Phe	Gly	Leu
								725				730			735
Ser	Arg	Leu	Met	Ser	Thr	Ala	Ala	Asn	Ser	Asn	Val	Ile	Ala	Thr	Ala
								740				745			750
Gly	Ala	Leu	Gly	Tyr	Arg	Ala	Pro	Glu	Leu	Ser	Lys	Leu	Lys	Lys	Ala
								755				760			765
Asn	Thr	Lys	Thr	Asp	Ile	Tyr	Ser	Leu	Gly	Val	Ile	Leu	Leu	Glu	Leu
								770				775			780
Leu	Thr	Arg	Lys	Ser	Pro	Gly	Val	Pro	Met	Asn	Gly	Leu	Asp	Leu	Pro
								785				790			800
Gln	Trp	Val	Ala	Ser	Val	Val	Lys	Glu	Glu	Trp	Thr	Asn	Glu	Val	Phe
								805				810			815
Asp	Ala	Asp	Leu	Met	Arg	Asp	Ala	Ser	Thr	Val	Gly	Asp	Glu	Leu	Leu
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Asn	Thr	Leu	Lys	Leu	Ala	Leu	His	Cys	Val	Asp	Pro	Ser	Pro	Ser	Ala
								835				840			845
Arg	Pro	Glu	Val	His	Gln	Val	Leu	Gln	Gln	Leu	Glu	Glu	Ile	Arg	Pro
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Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
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Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser		
35	40	45
Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu		
50	55	60
Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu		
65	70	75
		80
Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp		
85	90	95
Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys		
100	105	110
Cys Ala Lys Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu		
115	120	125
Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys		
130	135	140
Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu		
145	150	155
		160
Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu		
165	170	175
Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser		
180	185	190
Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu		
195	200	205
Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe		
210	215	220
Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe		
225	230	235
		240

Leu	Ser	Leu	Gln	Asn	Asn	Asn	Leu	Ser	Gly	Ser	Leu	Pro	Asn	Ser	Trp
							245				250				255
Gly	Gly	Asn	Ser	Lys	Asn	Gly	Phe	Phe	Arg	Leu	Gln	Asn	Leu	Ile	Leu
							260				265				270
Asp	His	Asn	Phe	Phe	Thr	Gly	Asp	Val	Pro	Ala	Ser	Leu	Gly	Ser	Leu
							275				280				285
Arg	Glu	Leu	Asn	Glu	Ile	Ser	Leu	Ser	His	Asn	Lys	Phe	Ser	Gly	Ala
							290				295				300
Ile	Pro	Asn	Glu	Ile	Gly	Thr	Leu	Ser	Arg	Leu	Lys	Thr	Leu	Asp	Ile
							305				310				315
Ser	Asn	Asn	Ala	Leu	Asn	Gly	Asn	Leu	Pro	Ala	Thr	Leu	Ser	Asn	Leu
							325				330				335
Ser	Ser	Leu	Thr	Leu	Leu	Asn	Ala	Glu	Asn	Asn	Leu	Leu	Asp	Asn	Gln
							340				345				350
Ile	Pro	Gln	Ser	Leu	Gly	Arg	Leu	Arg	Asn	Leu	Ser	Val	Leu	Ile	Leu
							355				360				365
Ser	Arg	Asn	Gln	Phe	Ser	Gly	His	Ile	Pro	Ser	Ser	Ile	Ala	Asn	Ile
							370				375				380
Ser	Ser	Leu	Arg	Gln	Leu	Asp	Leu	Ser	Leu	Asn	Asn	Phe	Ser	Gly	Glu
							385				390				400
Ile	Pro	Val	Ser	Phe	Asp	Ser	Gln	Arg	Ser	Leu	Asn	Leu	Phe	Asn	Val
							405				410				415
Ser	Tyr	Asn	Ser	Leu	Ser	Gly	Ser	Val	Pro	Pro	Leu	Leu	Ala	Lys	Lys
							420				425				430
Phe	Asn	Ser	Ser	Ser	Phe	Val	Gly	Asn	Ile	Gln	Leu	Cys	Gly	Tyr	Ser
							435				440				445
Pro	Ser	Thr	Pro	Cys	Leu	Ser	Gln	Ala	Pro	Ser	Gln	Gly	Val	Ile	Ala
							450				455				460
Pro	Pro	Pro	Glu	Val	Ser	Lys	His	His	His	Arg	Lys	Leu	Ser	Thr	
							465				470				480
Lys	Asp	Ile	Ile	Leu	Ile	Val	Ala	Gly	Val	Leu	Leu	Val	Val	Ile	
							485				490				495
Ile	Leu	Cys	Cys	Val	Leu	Leu	Phe	Cys	Leu	Ile	Arg	Lys	Arg	Ser	Thr
							500				505				510
Ser	Lys	Ala	Gly	Asn	Gly	Gln	Ala	Thr	Glu	Gly	Arg	Ala	Ala	Thr	Met
							515				520				525
Arg	Thr	Glu	Lys	Gly	Val	Pro	Pro	Val	Ala	Ala	Gly	Asp	Val	Glu	Ala
							530				535				540
Gly	Gly	Glu	Ala	Gly	Gly	Lys	Leu	Val	His	Phe	Asp	Gly	Pro	Met	Ala

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Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys			
565	570	575	
Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln			
580	585	590	
Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu			
595	600	605	
Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val			
610	615	620	
Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu			
625	630	635	640
Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly			
645	650	655	
Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala			
660	665	670	
Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile			
675	680	685	
Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr			
690	695	700	
Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala			
705	710	715	720
Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala			
725	730	735	
Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr			
740	745	750	
Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly			
755	760	765	
Val Pro Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val			
770	775	780	
Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp			
785	790	795	800
Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu			
805	810	815	
His Cys Val Asp Pro Ser Pro Ala Arg Pro Glu Val His Gln Val			
820	825	830	
Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser			
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Pro Gly Asp Asp Ile Val			
850			

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Gln Lys Arg Ser Thr Met Asn Met Ile Thr Thr Ile Leu Leu Arg			
20	25	30	
Phe Trp Asp Arg Tyr Asp Met Asn Cys Asp Tyr Thr Thr Asn Ser Tyr			
35	40	45	
Glu Pro Gly Thr Gln Leu Ala Pro Ser Ser Pro Arg Asp Thr Ser Val			
50	55	60	
Lys Leu Gly Asp Ala Ser Ser Leu Val Val Leu Pro Ser Cys Val Arg			
65	70	75	80
Pro Val Leu Cys Glu Asp Glu Gly Trp Asp Gly Val Val Val Thr Ala			
85	90	95	
Ser Asn Leu Ala Leu Glu Ala Phe Lys Gln Glu Leu Val Asp Pro			
100	105	110	
Glu Gly Phe Leu Arg Ser Trp Asn Asp Ser Gly Tyr Gly Ala Cys Ser			
115	120	125	
Gly Gly Trp Val Gly Ile Lys Cys Ala Gln Gly Gln Val Ile Val Ile			
130	135	140	
Gln Leu Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly			
145	150	155	160
Gln Leu Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly			
165	170	175	
Gly Ser Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val			
180	185	190	
Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly			
195	200	205	
Phe Cys Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr			
210	215	220	
Gly Ala Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu			
225	230	235	240
Asn Leu Ser Phe Asn Ser Phe Ser Gly Pro Leu Pro Ala Ser Leu Thr			
245	250	255	

His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser		
260	265	270
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe		
275	280	285
Arg Leu Gln Asn Leu Ile Leu Asp Asn Asn Phe Phe Thr Gly Asp Val		
290	295	300
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser		
305	310	315
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser		
325	330	335
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu		
340	345	350
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu		
355	360	365
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg		
370	375	380
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile		
385	390	395
400		
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser		
405	410	415
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg		
420	425	430
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val		
435	440	445
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Phe Val Gly Asn		
450	455	460
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala		
465	470	475
480		
Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His		
485	490	495
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly		
500	505	510
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys		
515	520	525
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr		
530	535	540
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val		
545	550	555
560		

Ala Ala Gly Asp Val Glu Ala Gly Gly Glu Ala Gly Gly Lys Leu Val  
 565 570 575  
 His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala  
 580 585 590  
 Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala  
 595 600 605  
 Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys  
 610 615 620  
 Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly  
 625 630 635 640  
 Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly  
 645 650 655  
 Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser  
 660 665 670  
 Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp  
 675 680 685  
 Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys  
 690 695 700  
 Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn  
 705 710 715 720  
 Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu  
 725 730 735  
 Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala  
 740 745 750  
 Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala  
 755 760 765  
 Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu  
 770 775 780  
 Leu Thr Arg Lys Ser Pro Gly Val Pro Met Asn Gly Leu Asp Leu Pro  
 785 790 795 800  
 Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe  
 805 810 815  
 Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu  
 820 825 830  
 Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala  
 835 840 845  
 Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro  
 850 855 860  
 Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val

865 870

875

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&lt;223&gt; Seq ID: rhg1\_noir\_amplicon

&lt;400&gt; 1111

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Phe Asn Arg Val Ser Asp Lys Lys Glu Arg Cys Lys Thr His Met			
20	25	30	

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser			
35	40	45	

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu			
50	55	60	

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp			
85	90	95	

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys			
100	105	110	

Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu			
115	120	125	

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys			
130	135	140	

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu			
165	170	175	

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser			
180	185	190	

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu			
195	200	205	

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe			
210	215	220	

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe			
225	230	235	240

Leu Ser Leu Gln Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp

245	250	255
Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu		
260	265	270
Asp Asn Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu		
275	280	285
Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala		
290	295	300
Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile		
305	310	315
Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu		
325	330	335
Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln		
340	345	350
Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu		
355	360	365
Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile		
370	375	380
Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu		
385	390	395
Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val		
405	410	415
Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys		
420	425	430
Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser		
435	440	445
Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala		
450	455	460
Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu Ser Thr		
465	470	475
480		
Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile		
485	490	495
Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr		
500	505	510
Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met		
515	520	525
Arg Thr Glu Lys Gly Val Pro Pro Val Ala Ala Gly Asp Val Glu Ala		
530	535	540
Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala		
545	550	555
560		

Phe	Thr	Ala	Asp	Asp	Leu	Leu	Cys	Ala	Thr	Ala	Glu	Ile	Met	Gly	Lys
		565							570				575		
Ser	Thr	Tyr	Gly	Thr	Val	Tyr	Lys	Ala	Ile	Leu	Glu	Asp	Gly	Ser	Gln
		580					585					590			
Val	Ala	Val	Lys	Arg	Leu	Arg	Glu	Lys	Ile	Thr	Lys	Gly	His	Arg	Glu
	595					600					605				
Phe	Glu	Ser	Glu	Val	Ser	Val	Leu	Gly	Lys	Ile	Arg	His	Pro	Asn	Val
	610				615					620					
Leu	Ala	Leu	Arg	Ala	Tyr	Tyr	Leu	Gly	Pro	Lys	Gly	Glu	Lys	Leu	Leu
	625					630			635				640		
Val	Phe	Asp	Tyr	Met	Ser	Lys	Gly	Ser	Leu	Ala	Ser	Phe	Leu	His	Gly
	645					650					655				
Gly	Gly	Thr	Glu	Thr	Phe	Ile	Asp	Trp	Pro	Thr	Arg	Met	Lys	Ile	Ala
	660					665					670				
Gln	Asp	Leu	Ala	Arg	Gly	Leu	Phe	Cys	Leu	His	Ser	Gln	Glu	Asn	Ile
	675					680			685						
Ile	His	Gly	Asn	Leu	Thr	Ser	Ser	Asn	Val	Leu	Asp	Glu	Asn	Thr	
	690					695			700						
Asn	Ala	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ser	Arg	Leu	Met	Ser	Thr	Ala
	705					710			715			720			
Ala	Asn	Ser	Asn	Val	Ile	Ala	Thr	Ala	Gly	Ala	Leu	Gly	Tyr	Arg	Ala
					725				730			735			
Pro	Glu	Leu	Ser	Lys	Leu	Lys	Lys	Ala	Asn	Thr	Lys	Thr	Asp	Ile	Tyr
		740				745				750					
Ser	Leu	Gly	Val	Ile	Leu	Leu	Glu	Leu	Leu	Thr	Arg	Lys	Ser	Pro	Gly
		755				760			765						
Val	Pro	Met	Asn	Gly	Leu	Asp	Leu	Pro	Gln	Trp	Val	Ala	Ser	Val	Val
		770				775			780						
Lys	Glu	Glu	Trp	Thr	Asn	Glu	Val	Phe	Asp	Ala	Asp	Leu	Met	Arg	Asp
	785					790			795			800			
Ala	Ser	Thr	Val	Gly	Asp	Glu	Leu	Leu	Asn	Thr	Leu	Lys	Leu	Ala	Leu
					805				810			815			
His	Cys	Val	Asp	Pro	Ser	Pro	Ser	Ala	Arg	Pro	Glu	Val	His	Gln	Val
					820				825			830			
Leu	Gln	Gln	Leu	Glu	Glu	Ile	Arg	Pro	Glu	Arg	Ser	Val	Thr	Ala	Ser
					835			840			845				
Pro	Gly	Asp	Asp	Ile	Val										
		850													

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<400> 1112

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Gln	Lys	Arg	Ser	Thr	Met	Asn	Met	Met	Ile	Thr	Thr	Ile	Leu	Leu	Arg
					20				25			30			

Phe	Trp	Asp	Arg	Tyr	Asp	Met	Asn	Cys	Asp	Tyr	Thr	Thr	Asn	Ser	Tyr
					35			40				45			

Glu	Pro	Gly	Thr	Gln	Leu	Ala	Pro	Ser	Ser	Pro	Arg	Asp	Thr	Ser	Val
					50			55			60				

Lys	Leu	Gly	Asp	Ala	Ser	Ser	Leu	Val	Val	Leu	Pro	Ser	Cys	Val	Arg
					65			70			75			80	

Pro	Val	Leu	Cys	Glu	Asp	Glu	Gly	Trp	Asp	Gly	Val	Val	Val	Thr	Ala
					85				90			95			

Ser	Asn	Leu	Leu	Ala	Leu	Glu	Ala	Phe	Lys	Gln	Glu	Leu	Val	Asp	Pro
					100				105			110			

Glu	Gly	Phe	Leu	Arg	Ser	Trp	Asn	Asp	Ser	Gly	Tyr	Gly	Ala	Cys	Ser
					115				120			125			

Gly	Gly	Trp	Val	Gly	Ile	Lys	Cys	Ala	Gln	Gly	Gln	Val	Ile	Val	Ile
					130			135				140			

Gln	Leu	Pro	Trp	Lys	Gly	Leu	Arg	Gly	Arg	Ile	Thr	Asp	Lys	Ile	Gly
					145			150			155			160	

Gln	Leu	Gln	Gly	Leu	Arg	Lys	Leu	Ser	Leu	His	Asp	Asn	Gln	Ile	Gly
						165			170			175			

Gly	Ser	Ile	Pro	Ser	Thr	Leu	Gly	Leu	Leu	Pro	Asn	Leu	Arg	Gly	Val
						180			185			190			

Gln	Leu	Phe	Asn	Asn	Arg	Leu	Thr	Gly	Ser	Ile	Pro	Leu	Ser	Leu	Gly
						195			200			205			

Phe	Cys	Pro	Leu	Leu	Gln	Ser	Leu	Asp	Leu	Ser	Asn	Asn	Leu	Leu	Thr
					210				215			220			

Gly	Ala	Ile	Pro	Tyr	Ser	Leu	Ala	Asn	Ser	Thr	Lys	Leu	Tyr	Trp	Leu
					225			230			235			240	

Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr
						245			250			255			

His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser		
260	265	270
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe		
275	280	285
Arg Leu Gln Asn Leu Ile Leu Asp Asn Asn Phe Phe Thr Gly Asp Val		
290	295	300
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser		
305	310	315
320		
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser		
325	330	335
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu		
340	345	350
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu		
355	360	365
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg		
370	375	380
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile		
385	390	395
400		
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser		
405	410	415
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg		
420	425	430
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val		
435	440	445
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn		
450	455	460
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala		
465	470	475
480		
Pro Ser Gln Gly Val Ile Ala Pro Pro Pro Glu Val Ser Lys His His		
485	490	495
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly		
500	505	510
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys		
515	520	525
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr		
530	535	540
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val		
545	550	555
560		
Ala Ala Gly Asp Val Glu Ala Gly Glu Ala Gly Gly Lys Leu Val		

565	570	575
His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala		
580	585	590
Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala		
595	600	605
Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys		
610	615	620
Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly		
625	630	635
Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly		
645	650	655
Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser		
660	665	670
Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp		
675	680	685
Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys		
690	695	700
Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn		
705	710	715
720		
Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu		
725	730	735
Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala		
740	745	750
Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala		
755	760	765
Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu		
770	775	780
Leu Thr Arg Lys Ser Pro Gly Val Pro Met Asn Gly Leu Asp Leu Pro		
785	790	795
800		
Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe		
805	810	815
Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu		
820	825	830
Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala		
835	840	845
Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro		
850	855	860
Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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Phe Asn Arg Val Ser Asp Lys Lys Lys Glu Arg Cys Lys Thr His Met			
20	25	30	
Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser			
35	40	45	
Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu			
50	55	60	
Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80
Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp			
85	90	95	
Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys			
100	105	110	
Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu			
115	120	125	
Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys			
130	135	140	
Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160
Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu			
165	170	175	
Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser			
180	185	190	
Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu			
195	200	205	
Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe			
210	215	220	
Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe			
225	230	235	240
Leu Ser Leu Gln Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp			
245	250	255	

Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu  
 260 265 270

Asp Asn Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu  
 275 280 285

Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala  
 290 295 300

Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile  
 305 310 315 320

Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu  
 325 330 335

Ser Ser Leu Thr Leu Leu Asn Ala Glu Asn Asn Leu Leu Asp Asn Gln  
 340 345 350

Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu  
 355 360 365

Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile  
 370 375 380

Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu  
 385 390 395 400

Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val  
 405 410 415

Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys  
 420 425 430

Phe Asn Ser Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser  
 435 440 445

Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala  
 450 455 460

Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu Ser Thr  
 465 470 475 480

Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile  
 485 490 495

Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr  
 500 505 510

Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met  
 515 520 525

Arg Thr Glu Lys Gly Val Pro Pro Val Ala Ala Gly Asp Val Glu Ala  
 530 535 540

Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala  
 545 550 555 560

Phe Thr Ala Asp Asp Leu Leu Cys Ala Thr Ala Glu Ile Met Gly Lys  
 565 570 575

Ser Thr Tyr Gly Thr Val Tyr Lys Ala Ile Leu Glu Asp Gly Ser Gln  
 580 585 590

Val Ala Val Lys Arg Leu Arg Glu Lys Ile Thr Lys Gly His Arg Glu  
 595 600 605

Phe Glu Ser Glu Val Ser Val Leu Gly Lys Ile Arg His Pro Asn Val  
 610 615 620

Leu Ala Leu Arg Ala Tyr Tyr Leu Gly Pro Lys Gly Glu Lys Leu Leu  
 625 630 635 640

Val Phe Asp Tyr Met Ser Lys Gly Ser Leu Ala Ser Phe Leu His Gly  
 645 650 655

Gly Gly Thr Glu Thr Phe Ile Asp Trp Pro Thr Arg Met Lys Ile Ala  
 660 665 670

Gln Asp Leu Ala Arg Gly Leu Phe Cys Leu His Ser Gln Glu Asn Ile  
 675 680 685

Ile His Gly Asn Leu Thr Ser Ser Asn Val Leu Leu Asp Glu Asn Thr  
 690 695 700

Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Leu Met Ser Thr Ala  
 705 710 715 720

Ala Asn Ser Asn Val Ile Ala Thr Ala Gly Ala Leu Gly Tyr Arg Ala  
 725 730 735

Pro Glu Leu Ser Lys Leu Lys Lys Ala Asn Thr Lys Thr Asp Ile Tyr  
 740 745 750

Ser Leu Gly Val Ile Leu Leu Glu Leu Leu Thr Arg Lys Ser Pro Gly  
 755 760 765

Val Pro Met Asn Gly Leu Asp Leu Pro Gln Trp Val Ala Ser Val Val  
 770 775 780

Lys Glu Glu Trp Thr Asn Glu Val Phe Asp Ala Asp Leu Met Arg Asp  
 785 790 795 800

Ala Ser Thr Val Gly Asp Glu Leu Leu Asn Thr Leu Lys Leu Ala Leu  
 805 810 815

His Cys Val Asp Pro Ser Pro Ser Ala Arg Pro Glu Val His Gln Val  
 820 825 830

Leu Gln Gln Leu Glu Glu Ile Arg Pro Glu Arg Ser Val Thr Ala Ser  
 835 840 845

Pro Gly Asp Asp Ile Val  
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<223> Seq ID: rhg1\_pi200499\_amplicon

<400> 1114

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Gln	Lys	Arg	Ser	Thr	Met	Asn	Met	Ile	Thr	Thr	Ile	Leu	Leu	Arg
	20							25						30

Phe	Trp	Asp	Arg	Tyr	Asp	Met	Asn	Cys	Asp	Tyr	Thr	Thr	Asn	Ser	Tyr
	35					40				45					

Glu	Pro	Gly	Thr	Gln	Leu	Ala	Pro	Ser	Ser	Pro	Arg	Asp	Thr	Ser	Val
	50						55			60					

Lys	Leu	Gly	Asp	Ala	Ser	Ser	Leu	Val	Val	Leu	Pro	Ser	Cys	Val	Arg
65					70				75				80		

Pro	Val	Leu	Cys	Glu	Asp	Glu	Gly	Trp	Asp	Gly	Val	Val	Val	Thr	Ala
	85							90					95		

Ser	Asn	Leu	Leu	Ala	Leu	Glu	Ala	Phe	Lys	Gln	Glu	Leu	Val	Asp	Pro
		100						105				110			

Glu	Gly	Phe	Leu	Arg	Ser	Trp	Asn	Asp	Ser	Gly	Tyr	Gly	Ala	Cys	Ser
		115					120			125					

Gly	Gly	Trp	Val	Gly	Ile	Lys	Cys	Ala	Gln	Gly	Gln	Val	Ile	Val	Ile
		130				135				140					

Gln	Leu	Pro	Trp	Lys	Gly	Leu	Arg	Gly	Arg	Ile	Thr	Asp	Lys	Ile	Gly
145					150				155			160			

Gln	Leu	Gln	Gly	Leu	Arg	Lys	Leu	Ser	Leu	His	Asp	Asn	Gln	Ile	Gly
		165					170				175				

Gly	Ser	Ile	Pro	Ser	Thr	Leu	Gly	Leu	Leu	Pro	Asn	Leu	Arg	Gly	Val
		180					185				190				

Gln	Leu	Phe	Asn	Asn	Arg	Leu	Thr	Gly	Ser	Ile	Pro	Leu	Ser	Leu	Gly
		195					200			205					

Phe	Cys	Pro	Leu	Leu	Gln	Ser	Leu	Asp	Leu	Ser	Asn	Asn	Leu	Leu	Thr
	210						215			220					

Gly	Ala	Ile	Pro	Tyr	Ser	Leu	Ala	Asn	Ser	Thr	Lys	Leu	Tyr	Trp	Leu
225						230				235			240		

Asn	Leu	Ser	Phe	Asn	Ser	Phe	Ser	Gly	Pro	Leu	Pro	Ala	Ser	Leu	Thr
		245						250				255			

His Ser Phe Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn Asn Leu Ser		
260	265	270
Gly Ser Leu Pro Asn Ser Trp Gly Gly Asn Ser Lys Asn Gly Phe Phe		
275	280	285
Arg Leu Gln Asn Leu Ile Leu Asp Asn Asn Phe Phe Thr Gly Asp Val		
290	295	300
Pro Ala Ser Leu Gly Ser Leu Arg Glu Leu Asn Glu Ile Ser Leu Ser		
305	310	315
His Asn Lys Phe Ser Gly Ala Ile Pro Asn Glu Ile Gly Thr Leu Ser		
325	330	335
Arg Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu		
340	345	350
Pro Ala Thr Leu Ser Asn Leu Ser Ser Leu Thr Leu Leu Asn Ala Glu		
355	360	365
Asn Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Leu Gly Arg Leu Arg		
370	375	380
Asn Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile		
385	390	395
400		
Pro Ser Ser Ile Ala Asn Ile Ser Ser Leu Arg Gln Leu Asp Leu Ser		
405	410	415
Leu Asn Asn Phe Ser Gly Glu Ile Pro Val Ser Phe Asp Ser Gln Arg		
420	425	430
Ser Leu Asn Leu Phe Asn Val Ser Tyr Asn Ser Leu Ser Gly Ser Val		
435	440	445
450		
Pro Pro Leu Leu Ala Lys Lys Phe Asn Ser Ser Ser Phe Val Gly Asn		
455	460	
Ile Gln Leu Cys Gly Tyr Ser Pro Ser Thr Pro Cys Leu Ser Gln Ala		
465	470	475
480		
Pro Ser Gln Gly Val Ile Ala Pro Pro Glu Val Ser Lys His His		
485	490	495
His His Arg Lys Leu Ser Thr Lys Asp Ile Ile Leu Ile Val Ala Gly		
500	505	510
Val Leu Leu Val Val Leu Ile Ile Leu Cys Cys Val Leu Leu Phe Cys		
515	520	525
Leu Ile Arg Lys Arg Ser Thr Ser Lys Ala Gly Asn Gly Gln Ala Thr		
530	535	540
Glu Gly Arg Ala Ala Thr Met Arg Thr Glu Lys Gly Val Pro Pro Val		
545	550	555
560		
Ala Ala Gly Asp Val Glu Ala Gly Glu Ala Gly Gly Lys Leu Val		

565	570	575
His Phe Asp Gly Pro Met Ala Phe Thr Ala Asp Asp Leu Leu Cys Ala		
580	585	590
Thr Ala Glu Ile Met Gly Lys Ser Thr Tyr Gly Thr Val Tyr Lys Ala		
595	600	605
Ile Leu Glu Asp Gly Ser Gln Val Ala Val Lys Arg Leu Arg Glu Lys		
610	615	620
Ile Thr Lys Gly His Arg Glu Phe Glu Ser Glu Val Ser Val Leu Gly		
625	630	635
Lys Ile Arg His Pro Asn Val Leu Ala Leu Arg Ala Tyr Tyr Leu Gly		
645	650	655
Pro Lys Gly Glu Lys Leu Leu Val Phe Asp Tyr Met Ser Lys Gly Ser		
660	665	670
Leu Ala Ser Phe Leu His Gly Gly Thr Glu Thr Phe Ile Asp Trp		
675	680	685
Pro Thr Arg Met Lys Ile Ala Gln Asp Leu Ala Arg Gly Leu Phe Cys		
690	695	700
Leu His Ser Gln Glu Asn Ile Ile His Gly Asn Leu Thr Ser Ser Asn		
705	710	715
Val Leu Leu Asp Glu Asn Thr Asn Ala Lys Ile Ala Asp Phe Gly Leu		
725	730	735
Ser Arg Leu Met Ser Thr Ala Ala Asn Ser Asn Val Ile Ala Thr Ala		
740	745	750
Gly Ala Leu Gly Tyr Arg Ala Pro Glu Leu Ser Lys Leu Lys Lys Ala		
755	760	765
Asn Thr Lys Thr Asp Ile Tyr Ser Leu Gly Val Ile Leu Leu Glu Leu		
770	775	780
Leu Thr Arg Lys Ser Pro Gly Val Pro Met Asn Gly Leu Asp Leu Pro		
785	790	795
Gln Trp Val Ala Ser Val Val Lys Glu Glu Trp Thr Asn Glu Val Phe		
805	810	815
Asp Ala Asp Leu Met Arg Asp Ala Ser Thr Val Gly Asp Glu Leu Leu		
820	825	830
Asn Thr Leu Lys Leu Ala Leu His Cys Val Asp Pro Ser Pro Ser Ala		
835	840	845
Arg Pro Glu Val His Gln Val Leu Gln Gln Leu Glu Glu Ile Arg Pro		
850	855	860
Glu Arg Ser Val Thr Ala Ser Pro Gly Asp Asp Ile Val		
865	870	875

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<223> Seq ID: rhg1\_pi200499\_amplicon

<400> 1115

Met Val Val Ala Val Glu Lys Thr Asn Leu Thr Ser Gln Ser Gln Cys			
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Phe Asn Arg Val Ser Asp Lys Lys Glu Arg Cys Lys Thr His Met			
20	25	30	

Asn Asn Val Asn Pro Cys Cys Phe Leu Phe Leu Leu Cys Val Trp Ser			
35	40	45	

Leu Val Val Leu Pro Ser Cys Val Arg Pro Val Leu Cys Glu Asp Glu			
50	55	60	

Gly Trp Asp Gly Val Val Val Thr Ala Ser Asn Leu Leu Ala Leu Glu			
65	70	75	80

Ala Phe Lys Gln Glu Leu Val Asp Pro Glu Gly Phe Leu Arg Ser Trp			
85	90	95	

Asn Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly Trp Val Gly Ile Lys			
100	105	110	

Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu Pro Trp Lys Gly Leu			
115	120	125	

Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu Gln Gly Leu Arg Lys			
130	135	140	

Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser Ile Pro Ser Thr Leu			
145	150	155	160

Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu Phe Asn Asn Arg Leu			
165	170	175	

Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys Pro Leu Leu Gln Ser			
180	185	190	

Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala Ile Pro Tyr Ser Leu			
195	200	205	

Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu Ser Phe Asn Ser Phe			
210	215	220	

Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser Phe Ser Leu Thr Phe			
225	230	235	240

Leu Ser Leu Gln Asn Asn Leu Ser Gly Ser Leu Pro Asn Ser Trp			
245	250	255	

Gly Gly Asn Ser Lys Asn Gly Phe Phe Arg Leu Gln Asn Leu Ile Leu  
 260 265 270  
 Asp Asn Asn Phe Phe Thr Gly Asp Val Pro Ala Ser Leu Gly Ser Leu  
 275 280 285  
 Arg Glu Leu Asn Glu Ile Ser Leu Ser His Asn Lys Phe Ser Gly Ala  
 290 295 300  
 Ile Pro Asn Glu Ile Gly Thr Leu Ser Arg Leu Lys Thr Leu Asp Ile  
 305 310 315 320  
 Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro Ala Thr Leu Ser Asn Leu  
 325 330 335  
 Ser Ser Leu Thr Leu Leu Asn Ala .Glu Asn Asn Leu Leu Asp Asn Gln  
 340 345 350  
 Ile Pro Gln Ser Leu Gly Arg Leu Arg Asn Leu Ser Val Leu Ile Leu  
 355 360 365  
 Ser Arg Asn Gln Phe Ser Gly His Ile Pro Ser Ser Ile Ala Asn Ile  
 370 375 380  
 Ser Ser Leu Arg Gln Leu Asp Leu Ser Leu Asn Asn Phe Ser Gly Glu  
 385 390 395 400  
 Ile Pro Val Ser Phe Asp Ser Gln Arg Ser Leu Asn Leu Phe Asn Val  
 405 410 415  
 Ser Tyr Asn Ser Leu Ser Gly Ser Val Pro Pro Leu Leu Ala Lys Lys  
 420 425 430  
 Phe Asn Ser Ser Phe Val Gly Asn Ile Gln Leu Cys Gly Tyr Ser  
 435 440 445  
 Pro Ser Thr Pro Cys Leu Ser Gln Ala Pro Ser Gln Gly Val Ile Ala  
 450 455 460  
 Pro Pro Pro Glu Val Ser Lys His His His His Arg Lys Leu Ser Thr  
 465 470 475 480  
 Lys Asp Ile Ile Leu Ile Val Ala Gly Val Leu Leu Val Val Leu Ile  
 485 490 495  
 Ile Leu Cys Cys Val Leu Leu Phe Cys Leu Ile Arg Lys Arg Ser Thr  
 500 505 510  
 Ser Lys Ala Gly Asn Gly Gln Ala Thr Glu Gly Arg Ala Ala Thr Met  
 515 520 525  
 Arg Thr Glu Lys Gly Val Pro Pro Val Ala Ala Gly Asp Val Glu Ala  
 530 535 540  
 Gly Gly Glu Ala Gly Gly Lys Leu Val His Phe Asp Gly Pro Met Ala  
 545 550 555 560

Phe	Thr	Ala	Asp	Asp	Leu	Leu	Cys	Ala	Thr	Ala	Glu	Ile	Met	Gly	Lys
					565					570				575	
Ser	Thr	Tyr	Gly	Thr	Val	Tyr	Lys	Ala	Ile	Leu	Glu	Asp	Gly	Ser	Gln
					580				585				590		
Val	Ala	Val	Lys	Arg	Leu	Arg	Glu	Lys	Ile	Thr	Lys	Gly	His	Arg	Glu
					595				600				605		
Phe	Glu	Ser	Glu	Val	Ser	Val	Leu	Gly	Lys	Ile	Arg	His	Pro	Asn	Val
					610				615				620		
Leu	Ala	Leu	Arg	Ala	Tyr	Tyr	Leu	Gly	Pro	Lys	Gly	Glu	Lys	Leu	Leu
					625				630			635			640
Val	Phe	Asp	Tyr	Met	Ser	Lys	Gly	Ser	Leu	Ala	Ser	Phe	Leu	His	Gly
					645				650			655			
Gly	Gly	Thr	Glu	Thr	Phe	Ile	Asp	Trp	Pro	Thr	Arg	Met	Lys	Ile	Ala
					660				665			670			
Gln	Asp	Leu	Ala	Arg	Gly	Leu	Phe	Cys	Leu	His	Ser	Gln	Glu	Asn	Ile
					675				680			685			
Ile	His	Gly	Asn	Leu	Thr	Ser	Ser	Asn	Val	Leu	Leu	Asp	Glu	Asn	Thr
					690				695			700			
Asn	Ala	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ser	Arg	Leu	Met	Ser	Thr	Ala
					705				710			715			720
Ala	Asn	Ser	Asn	Val	Ile	Ala	Thr	Ala	Gly	Ala	Leu	Gly	Tyr	Arg	Ala
					725				730			735			
Pro	Glu	Leu	Ser	Lys	Leu	Lys	Lys	Ala	Asn	Thr	Lys	Thr	Asp	Ile	Tyr
					740				745			750			
Ser	Leu	Gly	Val	Ile	Leu	Leu	Glu	Leu	Leu	Thr	Arg	Lys	Ser	Pro	Gly
					755				760			765			
Val	Pro	Met	Asn	Gly	Leu	Asp	Leu	Pro	Gln	Trp	Val	Ala	Ser	Val	Val
					770				775			780			
Lys	Glu	Glu	Trp	Thr	Asn	Glu	Val	Phe	Asp	Ala	Asp	Leu	Met	Arg	Asp
					785				790			795			800
Ala	Ser	Thr	Val	Gly	Asp	Glu	Leu	Leu	Asn	Thr	Leu	Lys	Leu	Ala	Leu
					805				810			815			
His	Cys	Val	Asp	Pro	Ser	Pro	Ser	Ala	Arg	Pro	Glu	Val	His	Gln	Val
					820				825			830			
Leu	Gln	Gln	Leu	Glu	Glu	Ile	Arg	Pro	Glu	Arg	Ser	Val	Thr	Ala	Ser
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Pro	Gly	Asp	Asp	Ile	Val										
					850										

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 Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile Gln Cys Asp Ser Ser  
 20 25 30  
  
 Ser His Val Thr Ser Ile Ser Leu Ala Ser His Ser Leu Thr Gly Thr  
 35 40 45  
  
 Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu  
 50 55 60  
  
 Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser  
 65 70 75 80  
  
 Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn Phe Ser Ser Val Ser  
 85 90 95  
  
 Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly  
 100 105 110  
  
 Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser  
 115 120 125  
  
 Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly  
 130 135 140  
  
 Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg  
 145 150 155 160  
  
 Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala  
 165 170 175  
  
 Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu  
 180 185 190  
  
 Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser Ala Leu Asn Gln Ser  
 195 200 205  
  
 Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile Pro Asp Leu Ser Gln  
 210 215 220  
  
 Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp Asn Gln Leu Thr Gly  
 225 230 235 240  
  
 Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser Leu Lys Lys Val Ser  
 245 250 255  
  
 Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro Val Phe Gly Lys Gly

260	265	270
Val Asn Val Thr Leu Asp Gly Ile Asn Ser Phe Cys Leu Asp Thr Pro		
275	280	285
Gly Asn Cys Asp Pro Arg Val Met Val Leu Leu Gln Ile Ala Glu Ala		
290	295	300
Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp Lys Gly Asn Asp Pro		
305	310	315
Cys Asp Gly Trp Asn Tyr Val Val Cys Ala Ala Gly Lys Ile Ile Thr		
325	330	335
Val Asn Phe Glu Lys Gln Gly Leu Gln Gly Thr Ile Ser Pro Ala Phe		
340	345	350
Ala Asn Leu Thr Asp Leu Arg Thr Leu Phe Leu Asn Gly Asn Asn Leu		
355	360	365
Ile Gly Ser Ile Pro Asp Ser Leu Ile Thr Leu Pro Gln Leu Gln Thr		
370	375	380
Leu Asp Val Ser Asp Asn Asn Leu Ser Gly Leu Val Pro Lys Phe Pro		
385	390	395
Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala Leu Leu Gly Lys Pro		
405	410	415
Leu Ser Pro Gly Gly Pro Ser Gly Thr Thr Pro Ser Gly Ser Ser		
420	425	430
Thr Gly Gly Ser Gly Gly Glu Ser Ser Lys Gly Asn Ser Ser Val Ser		
435	440	445
Pro Gly Trp Ile Ala Gly Ile Val Val Ile Val Phe Phe Ile Ala		
450	455	460
Val Val Leu Phe Val Ser Trp Lys Cys Phe Val Asn Lys Leu Gln Gly		
465	470	475
Lys Phe Ser Arg Val Lys Gly His Glu Asn Gly Lys Gly Gly Phe Lys		
485	490	495
Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly Gly Val Pro Val Glu		
500	505	510
Leu Gln Ser Gln Ser Ser Gly Asp Arg Ser Asp Leu His Ala Leu Asp		
515	520	525
Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln Val Thr Asn Asn Phe		
530	535	540
Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe Gly Val Val Tyr Lys		
545	550	555
Gly Val Leu His Asp Gly Thr Lys Ile Ala Val Lys Arg Met Glu Ser		
565	570	575

Val	Ala	Met	Gly	Asn	Lys	Gly	Gln	Lys	Glu	Phe	Glu	Ala	Glu	Ile	Ala
		580					585					590			
Leu	Leu	Ser	Lys	Val	Arg	His	Arg	His	Leu	Val	Ala	Leu	Leu	Gly	Tyr
		595					600					605			
Cys	Ile	Asn	Gly	Asn	Glu	Arg	Leu	Leu	Val	Tyr	Glu	Tyr	Met	Pro	Gln
		610					615					620			
Gly	Thr	Leu	Thr	Gln	His	Leu	Phe	Glu	Trp	Gln	Glu	His	Gly	Tyr	Ala
		625					630					635			640
Pro	Leu	Thr	Trp	Lys	Gln	Arg	Val	Val	Ile	Ala	Leu	Asp	Val	Ala	Arg
		645					650					655			
Gly	Val	Glu	Tyr	Leu	His	Ser	Leu	Ala	Gln	Gln	Ser	Phe	Ile	His	Arg
		660					665					670			
Asp	Leu	Lys	Pro	Ser	Asn	Ile	Leu	Leu	Gly	Asp	Asp	Met	Arg	Ala	Lys
		675					680					685			
Val	Ala	Asp	Phe	Gly	Leu	Val	Lys	Asn	Ala	Pro	Asp	Gly	Lys	Tyr	Ser
		690					695					700			
Val	Glu	Thr	Arg	Leu	Ala	Gly	Thr	Phe	Gly	Tyr	Leu	Ala	Pro	Glu	Tyr
		705					710					715			720
Ala	Ala	Thr	Gly	Arg	Val	Thr	Thr	Lys	Val	Asp	Val	Tyr	Ala	Phe	Gly
		725					730					735			
Val	Val	Leu	Met	Glu	Leu	Ile	Thr	Gly	Arg	Lys	Ala	Leu	Asp	Asp	Thr
		740					745					750			
Val	Pro	Asp	Glu	Arg	Ser	His	Leu	Val	Thr	Trp	Phe	Arg	Arg	Val	Leu
		755					760					765			
Ile	Asn	Lys	Glu	Asn	Ile	Pro	Lys	Ala	Ile	Asp	Gln	Ile	Leu	Asn	Pro
		770					775					780			
Asp	Glu	Glu	Thr	Met	Gly	Ser	Ile	Tyr	Thr	Val	Ala	Glu	Leu	Ala	Gly
		785					790					795			800
His	Cys	Thr	Ala	Arg	Glu	Pro	Tyr	Gln	Arg	Pro	Asp	Met	Gly	His	Ala
		805					810					815			
Val	Asn	Val	Leu	Val	Pro	Leu	Val	Glu	Gln	Trp	Lys	Pro	Thr	Ser	His
		820					825					830			
Asp	Glu	Glu	Glu	Asp	Gly	Ser	Gly	Gly	Asp	Leu	His	Met	Ser	Leu	
		835					840					845			
Pro	Gln	Ala	Leu	Arg	Arg	Trp	Gln	Ala	Asn	Glu	Gly	Thr	Ser	Ser	Ile
		850					855					860			
Phen	Asn	Asp	Ile	Ser	Ile	Ser	Gln	Thr	Gln	Ser	Ser	Ile	Ser	Ser	Lys
		865					870					875			880

Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser Met Asp Cys Arg  
885 890

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Met Ser Asn Phe Leu Lys Ser Leu Thr Pro Pro Pro Ser Gly Trp Ser  
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Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile Gln Cys Asp Ser Ser  
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Ser His Val Thr Ser Ile Ser Leu Ala Ser His Ser Leu Thr Gly Thr  
35 40 45

Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu  
50 55 60

Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser  
65 70 75 80

Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn Phe Ser Ser Val Ser  
85 90 95

Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly  
100 105 110

Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser  
115 120 125

Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly  
130 135 140

Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg  
145 150 155 160

Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala  
165 170 175

Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu  
180 185 190

Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser Ala Leu Asn Gln Ser  
195 200 205

Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile Pro Asp Leu Ser Gln  
210 215 220

Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp Asn Gln Leu Thr Gly  
225 230 235 240

Val	Val	Pro	Ala	Ser	Leu	Thr	Ser	Leu	Pro	Ser	Leu	Lys	Lys	Val	Ser
					245				250					255	
Leu	Asp	Asn	Asn	Glu	Leu	Gln	Gly	Pro	Val	Pro	Val	Phe	Gly	Lys	Gly
					260			265					270		
Val	Asn	Val	Thr	Leu	Asp	Gly	Ile	Asn	Ser	Phe	Cys	Leu	Asp	Thr	Pro
					275			280					285		
Gly	Asn	Cys	Asp	Pro	Arg	Val	Met	Val	Leu	Leu	Gln	Ile	Ala	Glu	Ala
					290			295			300				
Phe	Gly	Tyr	Pro	Ile	Arg	Leu	Ala	Glu	Ser	Trp	Lys	Gly	Asn	Asp	Pro
					305			310			315			320	
Cys	Asp	Gly	Trp	Asn	Tyr	Val	Val	Cys	Ala	Ala	Gly	Lys	Ile	Ile	Thr
					325			330			335				
Val	Asn	Phe	Glu	Lys	Gln	Gly	Leu	Gln	Gly	Thr	Ile	Ser	Pro	Ala	Phe
					340			345			350				
Ala	Asn	Leu	Thr	Asp	Leu	Arg	Thr	Leu	Phe	Leu	Asn	Gly	Asn	Asn	Leu
					355			360			365				
Ile	Gly	Ser	Ile	Pro	Asp	Ser	Leu	Ile	Thr	Leu	Pro	Gln	Leu	Gln	Thr
					370			375			380				
Leu	Asp	Val	Ser	Asp	Asn	Asn	Leu	Ser	Gly	Leu	Val	Pro	Lys	Phe	Pro
					385			390			395			400	
Pro	Lys	Val	Lys	Leu	Val	Thr	Ala	Gly	Asn	Ala	Leu	Leu	Gly	Lys	Pro
					405			410			415				
Leu	Ser	Pro	Gly	Gly	Pro	Ser	Gly	Thr	Thr	Pro	Ser	Gly	Ser	Ser	
					420			425			430				
Thr	Gly	Gly	Ser	Gly	Gly	Glu	Ser	Ser	Lys	Gly	Asn	Ser	Ser	Val	Ser
					435			440			445				
Pro	Gly	Trp	Ile	Ala	Gly	Ile	Val	Val	Ile	Val	Leu	Phe	Phe	Ile	Ala
					450			455			460				
Val	Val	Leu	Phe	Val	Ser	Trp	Lys	Cys	Phe	Val	Asn	Lys	Leu	Gln	Gly
					465			470			475			480	
Lys	Phe	Ser	Arg	Val	Lys	Gly	His	Glu	Asn	Gly	Lys	Gly	Gly	Phe	Lys
					485			490			495				
Leu	Asp	Ala	Val	His	Val	Ser	Asn	Gly	Tyr	Gly	Gly	Val	Pro	Val	Glu
					500			505			510				
Leu	Gln	Ser	Gln	Ser	Ser	Gly	Asp	Arg	Ser	Asp	Leu	His	Ala	Leu	Asp
					515			520			525				
Gly	Pro	Thr	Phe	Ser	Ile	Gln	Val	Leu	Arg	Gln	Val	Thr	Asn	Asn	Phe
					530			535			540				
Ser	Glu	Glu	Asn	Ile	Leu	Gly	Arg	Gly	Gly	Phe	Gly	Val	Val	Tyr	Lys

545	550	555	560
Gly Val Leu His Asp Gly Thr Lys Ile Ala Val Lys Arg Met Glu Ser			
565	570	575	
Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe Glu Ala Glu Ile Ala			
580	585	590	
Leu Leu Ser Lys Val Arg His Arg His Leu Val Ala Leu Leu Gly Tyr			
595	600	605	
Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr Glu Tyr Met Pro Gln			
610	615	620	
Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln Glu His Gly Tyr Ala			
625	630	635	640
Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala Leu Asp Val Ala Arg			
645	650	655	
Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln Ser Phe Ile His Arg			
660	665	670	
Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp Asp Met Arg Ala Lys			
675	680	685	
Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro Asp Gly Lys Tyr Ser			
690	695	700	
Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr Leu Ala Pro Glu Tyr			
705	710	715	720
Ala Ala Thr Gly Arg Val Thr Thr Lys Val Asp Val Tyr Ala Phe Gly			
725	730	735	
Val Val Leu Met Glu Leu Ile Thr Gly Arg Lys Ala Leu Asp Asp Thr			
740	745	750	
Val Pro Asp Glu Arg Ser His Leu Val Thr Trp Phe Arg Arg Val Leu			
755	760	765	
Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile Asp Gln Ile Leu Asn Pro			
770	775	780	
Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr Val Ala Glu Leu Ala Gly			
785	790	795	800
His Cys Thr Ala Arg Glu Pro Tyr Gln Arg Pro Asp Met Gly His Ala			
805	810	815	
Val Asn Val Leu Val Pro Leu Val Glu Gln Trp Lys Pro Thr Ser His			
820	825	830	
Asp Glu Glu Glu Asp Gly Ser Gly Asp Leu His Met Ser Leu			
835	840	845	
Pro Gln Ala Leu Arg Arg Trp Gln Ala Asn Glu Gly Thr Ser Ser Ile			
850	855	860	

Phe Asn Asp Ile Ser Ile Ser Gln Thr Gln Ser Ser Ile Ser Ser Lys  
 865                    870                    875                    880

Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser Met Asp Cys Arg  
 885                    890

<210>        1118  
 <211>        894  
 <212>        PRT  
 <213>        Glycine max

<223>        Seq ID: rhg4\_Jack\_amplicon

<400>        1118

Met Ser Asn Phe Leu Lys Ser Leu Thr Pro Pro Pro Ser Gly Trp Ser  
 1                    5                    10                    15

Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile Gln Cys Asp Ser Ser  
 20                    25                    30

Ser His Val Thr Ser Ile Ser Leu Ala Ser Gln Ser Leu Thr Gly Thr  
 35                    40                    45

Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu  
 50                    55                    60

Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser  
 65                    70                    75                    80

Phe Leu Gln Thr Val Tyr Leu Asn Arg Asn Asn Phe Ser Ser Val Ser  
 85                    90                    95

Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly  
 100                    105                    110

Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser  
 115                    120                    125

Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly  
 130                    135                    140

Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg  
 145                    150                    155                    160

Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala  
 165                    170                    175

Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu  
 180                    185                    190

Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser Ala Leu Asn Gln Ser  
 195                    200                    205

Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile Pro Asp Leu Ser Gln  
 210                    215                    220

Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp Asn Gln Leu Thr Gly		
225	230	235
240	245	250
255	260	265
270	275	280
285	290	295
290	295	300
Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp Lys Gly Asn Asp Pro		
305	310	315
320	325	330
335	340	345
350	355	360
365	370	375
380	385	390
395	395	400
Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala Leu Leu Gly Lys Pro		
405	410	415
Leu Ser Pro Gly Gly Pro Ser Gly Thr Thr Pro Ser Gly Ser Ser		
420	425	430
445	435	440
445	450	455
460	465	470
475	475	480
Lys Phe Ser Arg Val Lys Gly His Glu Asn Gln Gly Lys Gly Phe Lys		
485	490	495
Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly Val Pro Val Glu		
500	505	510
515	515	520
525	525	

Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln Val Thr Asn Asn Phe  
 530 535 540

Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe Gly Val Val Tyr Lys  
 545 550 555 560

Gly Val Leu His Asp Gly Thr Lys Ile Ala Val Lys Arg Met Glu Ser  
 565 570 575

Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe Glu Ala Glu Ile Ala  
 580 585 590

Leu Leu Ser Lys Val Arg His Arg His Leu Val Ala Leu Leu Gly Tyr  
 595 600 605

Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr Glu Tyr Met Pro Gln  
 610 615 620

Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln Glu His Gly Tyr Ala  
 625 630 635 640

Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala Leu Asp Val Ala Arg  
 645 650 655

Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln Ser Phe Ile His Arg  
 660 665 670

Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp Asp Met Arg Ala Lys  
 675 680 685

Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro Asp Gly Lys Tyr Ser  
 690 695 700

Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr Leu Ala Pro Glu Tyr  
 705 710 715 720

Ala Ala Thr Gly Arg Val Thr Thr Lys Val Asp Val Tyr Ala Phe Gly  
 725 730 735

Val Val Leu Met Glu Leu Ile Thr Gly Arg Lys Ala Leu Asp Asp Thr  
 740 745 750

Val Pro Asp Glu Arg Ser His Leu Val Thr Trp Phe Arg Arg Val Leu  
 755 760 765

Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile Asp Gln Ile Leu Asn Pro  
 770 775 780

Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr Val Ala Glu Leu Ala Gly  
 785 790 795 800

His Cys Thr Ala Arg Glu Pro Tyr Gln Arg Pro Asp Met Gly His Ala  
 805 810 815

Val Asn Val Leu Val Pro Leu Val Glu Gln Trp Lys Pro Thr Ser His  
 820 825 830

Asp Glu Glu Glu Asp Gly Ser Gly Asp Leu His Met Ser Leu

835

840

845

Pro Gln Ala Leu Arg Arg Trp Gln Ala Asn Glu Gly Thr Ser Ser Ile  
 850                    855                    860

Phe Asn Asp Ile Ser Ile Ser Gln Thr Gln Ser Ser Ile Ser Ser Lys  
 865                    870                    875                    880

Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser Met Asp Cys Arg  
 885                    890

&lt;210&gt; 1119

&lt;211&gt; 894

&lt;212&gt; PRT

&lt;213&gt; Glycine max

&lt;223&gt; Seq ID: rhg4\_peking\_amplicon

&lt;400&gt; 1119

Met Ser Asn Phe Leu Lys Ser Leu Thr Pro Pro Pro Ser Gly Trp Ser  
 1                    5                    10                    15

Glu Thr Thr Pro Phe Cys Gln Trp Lys Gly Ile Gln Cys Asp Ser Ser  
 20                    25                    30

Ser His Val Thr Ser Ile Ser Leu Ala Ser Gln Ser Leu Thr Gly Thr  
 35                    40                    45

Leu Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu  
 50                    55                    60

Gln Asp Asn Ser Leu Thr Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser  
 65                    70                    75                    80

Phe Leu Gln Thr Val Tyr Phe Asn Arg Asn Asn Phe Ser Ser Val Ser  
 85                    90                    95

Pro Thr Ala Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly  
 100                    105                    110

Ser Asn Pro Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser  
 115                    120                    125

Ser Ser Asn Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly  
 130                    135                    140

Pro Leu Pro Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg  
 145                    150                    155                    160

Leu Ser Tyr Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala  
 165                    170                    175

Ala Asn Asn Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu  
 180                    185                    190

Ser Gly Thr Leu Leu Val Leu Ser Asn Met Ser Ala Leu Asn Gln Ser

195	200	205
Trp Leu Asn Lys Asn Gln Phe Thr Gly Ser Ile Pro Asp Leu Ser Gln 210	215	220
Cys Thr Ala Leu Ser Asp Leu Gln Leu Arg Asp Asn Gln Leu Thr Gly 225	230	235
Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser Leu Lys Lys Val Ser 245	250	255
Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro Val Phe Gly Lys Gly 260	265	270
Val Asn Val Thr Leu Asp Gly Ile Asn Ser Phe Cys Leu Asp Thr Pro 275	280	285
Gly Asn Cys Asp Pro Arg Val Met Val Leu Leu Gln Ile Ala Glu Ala 290	295	300
Phe Gly Tyr Pro Ile Arg Leu Ala Glu Ser Trp Lys Gly Asn Asp Pro 305	310	315
Cys Asp Gly Trp Asn Tyr Val Val Cys Ala Ala Gly Lys Ile Ile Thr 325	330	335
Val Asn Phe Glu Lys Gln Gly Leu Gln Gly Thr Ile Ser Pro Ala Phe 340	345	350
Ala Asn Leu Thr Asp Leu Arg Thr Leu Phe Leu Asn Gly Asn Asn Leu 355	360	365
Ile Gly Ser Ile Pro Asp Ser Leu Ile Thr Leu Pro Gln Leu Gln Thr 370	375	380
Leu Asp Val Ser Asp Asn Asn Leu Ser Gly Leu Val Pro Lys Phe Pro 385	390	395
Pro Lys Val Lys Leu Val Thr Ala Gly Asn Ala Leu Leu Gly Lys Pro 405	410	415
Leu Ser Pro Gly Gly Pro Ser Gly Thr Thr Pro Ser Gly Ser Ser 420	425	430
Thr Gly Gly Ser Gly Gly Glu Ser Ser Lys Gly Asn Ser Ser Val Ser 435	440	445
Pro Gly Trp Ile Ala Gly Ile Val Val Ile Val Leu Phe Phe Ile Ala 450	455	460
Val Val Leu Phe Val Ser Trp Lys Cys Phe Val Asn Lys Leu Gln Gly 465	470	475
Lys Phe Ser Arg Val Lys Gly His Glu Asn Gly Lys Gly Phe Lys 485	490	495
Leu Asp Ala Val His Val Ser Asn Gly Tyr Gly Gly Val Pro Val Glu 500	505	510

Leu Gln Ser Gln Ser Ser Gly Asp Arg Ser Asp Asp Leu His Ala Leu Asp  
 515 520 525  
 Gly Pro Thr Phe Ser Ile Gln Val Leu Arg Gln Val Thr Asn Asn Phe  
 530 535 540  
 Ser Glu Glu Asn Ile Leu Gly Arg Gly Gly Phe Gly Val Val Tyr Lys  
 545 550 555 560  
 Gly Val Leu His Asp Gly Thr Lys Ile Ala Val Lys Arg Met Glu Ser  
 565 570 575  
 Val Ala Met Gly Asn Lys Gly Gln Lys Glu Phe Glu Ala Glu Ile Ala  
 580 585 590  
 Leu Leu Ser Lys Val Arg His Arg His Leu Val Ala Leu Leu Gly Tyr  
 595 600 605  
 Cys Ile Asn Gly Asn Glu Arg Leu Leu Val Tyr Glu Tyr Met Pro Gln  
 610 615 620  
 Gly Thr Leu Thr Gln His Leu Phe Glu Trp Gln Glu His Gly Tyr Ala  
 625 630 635 640  
 Pro Leu Thr Trp Lys Gln Arg Val Val Ile Ala Leu Asp Val Ala Arg  
 645 650 655  
 Gly Val Glu Tyr Leu His Ser Leu Ala Gln Gln Ser Phe Ile His Arg  
 660 665 670  
 Asp Leu Lys Pro Ser Asn Ile Leu Leu Gly Asp Asp Met Arg Ala Lys  
 675 680 685  
 Val Ala Asp Phe Gly Leu Val Lys Asn Ala Pro Asp Gly Lys Tyr Ser  
 690 695 700  
 Val Glu Thr Arg Leu Ala Gly Thr Phe Gly Tyr Leu Ala Pro Glu Tyr  
 705 710 715 720  
 Ala Ala Thr Gly Arg Val Thr Thr Lys Val Asp Val Tyr Ala Phe Gly  
 725 730 735  
 Val Val Leu Met Glu Leu Ile Thr Gly Arg Lys Ala Leu Asp Asp Thr  
 740 745 750  
 Val Pro Asp Glu Arg Ser His Leu Val Thr Trp Phe Arg Arg Val Leu  
 755 760 765  
 Ile Asn Lys Glu Asn Ile Pro Lys Ala Ile Asp Gln Ile Leu Asn Pro  
 770 775 780  
 Asp Glu Glu Thr Met Gly Ser Ile Tyr Thr Val Ala Glu Leu Ala Gly  
 785 790 795 800  
 His Cys Thr Ala Arg Glu Pro Tyr Gln Arg Pro Asp Met Gly His Ala  
 805 810 815

Val Asn Val Leu Val Pro Leu Val Glu Gln Trp Lys Pro Thr Ser His  
820 825 830

Asp Glu Glu Glu Glu Asp Gly Ser Gly Gly Asp Leu His Met Ser Leu  
835 840 845

Pro Gln Ala Leu Arg Arg Trp Gln Ala Asn Glu Gly Thr Ser Ser Ile  
850 855 860

Phe Asn Asp Ile Ser Ile Ser Gln Thr Gln Ser Ser Ile Ser Ser Lys  
865 870 875 880

Pro Ala Gly Phe Ala Asp Ser Phe Asp Ser Met Asp Cys Arg  
885 890

<210> 1120

<211> 23

<212> PRT

<213> Artificial

<223> Seq ID: consensusLRR

<400> 1120

Leu Phe Ser Asn Leu Pro Asn Leu Glu Glu Leu Asp Leu Ser Asn Asn  
1 5 10 15

Leu Thr Ser Leu Pro Pro Gly  
20

<210> 1121

<211> 289

<212> PRT

<213> Artificial

<223> Seq ID: rhg1LRR

<400> 1121

Thr Leu Gly Leu Leu Pro Gly Leu Arg Lys Leu Ser Leu His Asp Asn  
1 5 10 15

Gln Ile Gly Gly Ser Ile Pro Ser Ser Leu Gly Phe Cys Pro Asn Leu  
20 25 30

Arg Gly Val Gln Leu Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu  
35 40 45

Leu Ala Asn Ser Thr Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu  
 50 55 60  
 Leu Thr Gly Ala Ile Pro Tyr Ser Leu Thr His Ser Phe Lys Leu Tyr  
 65 70 75 80  
 Trp Leu Asn Leu Ser Phe Asn Ser Phe Ser Gly Pro Leu Pro Ala Ser  
 85 90 95  
 Trp Gly Gly Asn Ser Lys Ser Leu Thr Phe Leu Ser Leu Gln Asn Asn  
 100 105 110  
 Asn Leu Ser Gly Ser Leu Pro Asn Ser Leu Gly Ser Leu Arg Arg Leu  
 115 120 125  
 Gln Asn Leu Ile Leu Asp His Asn Phe Phe Thr Gly Asp Val Pro Ala  
 130 135 140  
 Ser Ile Gly Thr Leu Ser Glu Leu Asn Glu Leu Ser Leu Ser His Asn  
 145 150 155 160  
 Lys Phe Ser Gly Ala Ile Pro Asn Glu Thr Leu Ser Asn Leu Ser Arg  
 165 170 175  
 Leu Lys Thr Leu Asp Ile Ser Asn Asn Ala Leu Asn Gly Asn Leu Pro  
 180 185 190  
 Ala Ser Leu Gly Arg Leu Arg Ser Leu Thr Leu Leu Asn Ala Glu Asn  
 195 200 205  
 Asn Leu Leu Asp Asn Gln Ile Pro Gln Ser Ile Ala Asn Ile Ser Asn  
 210 215 220  
 Leu Ser Val Leu Ile Leu Ser Arg Asn Gln Phe Ser Gly His Ile Pro  
 225 230 235 240  
 Ser Ser Phe Asp Ser Gln Arg Ser Leu Arg Gln Leu Asp Leu Ser Leu  
 245 250 255  
 Asn Asn Phe Ser Gly Glu Ile Pro Val Leu Leu Ala Lys Lys Phe Asn  
 260 265 270  
 Ser Leu Asn Leu Phe Asn Val Ser Asn Ser Leu Ser Gly Ser Val Pro  
 275 280 285  
 Pro  
 <210> 1122  
 <211> 281  
 <212> PRT  
 <213> Artificial

&lt;223&gt; Seq ID: Rhg4LRR

&lt;400&gt; 1122

His Val Thr Ser Ile Ser Leu Ala Ser His Ser Leu Thr Gly Thr Leu			
1	5	10	15

Pro Ser Asp Leu Asn Ser Leu Ser Gln Leu Arg Thr Leu Ser Leu Gln		
20	25	30

Asp Asn Ser Leu Gly Thr Leu Pro Ser Leu Ser Asn Leu Ser Phe Leu		
35	40	45

Gln Thr Val Tyr Leu Asn Arg Asn Asn Phe Ser Ser Val Pro Thr Ala		
50	55	60

Phe Ala Ser Leu Thr Ser Leu Gln Thr Leu Ser Leu Gly Ser Asn Pro			
65	70	75	80

Ala Leu Gln Pro Trp Ser Phe Pro Thr Asp Leu Thr Ser Ser Ser Asn		
85	90	95

Leu Ile Asp Leu Asp Leu Ala Thr Val Ser Leu Thr Gly Pro Leu Pro		
100	105	110

Asp Ile Phe Asp Lys Phe Pro Ser Leu Gln His Leu Arg Leu Ser Tyr		
115	120	125

Asn Asn Leu Thr Gly Asn Leu Pro Ser Ser Phe Ser Ala Ala Asn Asn		
130	135	140

Leu Glu Thr Leu Trp Leu Asn Asn Gln Ala Ala Gly Leu Ser Gly Thr			
145	150	155	160

Leu Leu Leu Ser Asn Met Ser Ala Leu Ser Asp Leu Gln Leu Arg Asp		
165	170	175

, Asn Gln Leu Thr Gly Val Val Pro Ala Ser Leu Thr Ser Leu Pro Ser		
180	185	190

Leu Lys Lys Val Ser Leu Asp Asn Asn Glu Leu Gln Gly Pro Val Pro		
195	200	205

Val Phe Gly Lys Gly Val Asn Lys Ile Ile Thr Val Asn Phe Glu Lys		
210	215	220

Gln Gly Leu Gln Gly Thr Ile Ser Pro Ala Phe Ala Asn Leu Thr Asp			
225	230	235	240

Leu Arg Thr Leu Phe Leu Asn Gly Asn Asn Leu Ile Gly Ser Ile Pro		
245	250	255

Asp Ser Leu Ile Thr Leu Pro Gln Leu Gln Thr Leu Asp Val Ser Asp		
260	265	270

Asn Asn Leu Ser Gly Leu Val Pro Lys		
275	280	

<210> 1123

<211> 27

<212> DNA

<213> Glycine max

<223> Seq ID: 240017\_region\_G3\_forward\_1\_b

<400> 1123

gttgttatgga tggtaaaaat tc当地aac

27